

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT

<b>APPLICATION FOR PERMIT TO DRILL</b>						1. WELL NAME and NUMBER POTTER 2-4-3-1WH								
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT WILDCAT								
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME								
6. NAME OF OPERATOR NEWFIELD PRODUCTION COMPANY						7. OPERATOR PHONE 435 646-4825								
8. ADDRESS OF OPERATOR Rt 3 Box 3630 , Myton, UT, 84052						9. OPERATOR E-MAIL mcozler@newfield.com								
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) Patented			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>								
13. NAME OF SURFACE OWNER (if box 12 = 'fee') John R. and Stacey A. Bateman						14. SURFACE OWNER PHONE (if box 12 = 'fee') 435-823-3480								
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') RR 2 Box 2020, Roosevelt, UT 84066						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')								
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input checked="" type="checkbox"/>								
20. LOCATION OF WELL		FOOTAGES		QTR-QTR		SECTION		TOWNSHIP		RANGE		MERIDIAN		
LOCATION AT SURFACE		789 FNL 2259 FEL		NWNE				3.0 S		1.0 W		U		
Top of Uppermost Producing Zone		789 FNL 2259 FEL		NWNE		4		3.0 S		1.0 W		U		
At Total Depth		660 FSL 1980 FEL		SRE		4		3.0 S		1.0 W		U		
21. COUNTY DUCHESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 660			23. NUMBER OF ACRES IN DRILLING UNIT 40								
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Approved For Drilling or Completed) 1270			26. PROPOSED DEPTH MD: 13240 TVD: 8887								
27. ELEVATION - GROUND LEVEL 5074			28. BOND NUMBER B001834			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 437478								
<b>Hole, Casing, and Cement Information</b>														
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight				
COND	17.5	14	0 - 60	37.0	H-40 ST&C	0.0	Class G	35	1.17	15.8				
SURF	12.25	9.625	0 - 2500	36.0	J-55 LT&C	8.3	Premium Lite High Strength	204	3.53	11.0				
							Class G	154	1.17	15.8				
I1	8.75	7	0 - 9435	26.0	P-110 Other	10.5	Premium Lite High Strength	289	3.53	11.0				
							50/50 Poz	353	1.24	14.3				
L1	6.125	4.5	8496 - 13240	13.5	P-110 Other	10.5	No Used	0	0.0	0.0				
<b>ATTACHMENTS</b>														
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES														
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER						<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN								
<input checked="" type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)						<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER								
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)						<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP								
NAME Don Hamilton				TITLE Permitting Agent				PHONE 435 719-2018						
SIGNATURE				DATE 05/22/2012				EMAIL starpoint@etv.net						
API NUMBER ASSIGNED 43013514390000				APPROVAL   Permit Manager										

**Newfield Production Company****Potter 2-4-3-1WH****Surface Hole Location: 789' FNL, 2259' FEL, Section 4, T3S, R1W****Bottom Hole Location: 660' FSL, 1980' FEL, Section 4, T3S, R1W****Duchesne County, UT****Drilling Program****1. Formation Tops**

Uinta	surface		
Green River	3,958'		
Garden Gulch member	6,905'		
Uteland Butte	9,019'		
Lateral TD	8,887'	TVD /	13,240' MD

**2. Depth to Oil, Gas, Water, or Minerals**

Base of moderately saline	3,050'	(water)
Green River	6,905'	8,887' (oil)

**3. Pressure Control**

<u>Section</u>	<u>BOP Description</u>
Surface	12-1/4" diverter
Interm/Prod	The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc for a 5M system.

A 5M BOP system will consist of 2 ram preventers (double or two singles) and an annular preventer (see attached diagram). A choke manifold rated to at least 5,000 psi will be used.

**4. Casing**

Description	Interval		Weight (ppf)	Grade	Coup	Pore Press @ Shoe	MW @ Shoe	Frac Grad @ Shoe	Safety Factors		
	Top	Bottom (TVD/MD)							Burst	Collapse	Tension
Conductor 14	0'	60'	37	H-40	Weld	--	--	--	--	--	--
Surface 9 5/8	0'	2,500'	36	J-55	LTC	8.33	8.33	12	3,520	2,020	453,000
Intermediate 7	0'	9,080' 9,435'	26	P-110	BTC	10	10.5	15	9,960	6,210	830,000
Production 4 1/2	8,496'	8,887' 13,240'	13.5	P-110	BTC	10	10.5	--	12,410	10,670	422,000
									3.32	2.69	6.59

Assumptions:

Surface casing MASP = (frac gradient + 1.0 ppg) - (gas gradient)

Intermediate casing MASP = (reservoir pressure) - (gas gradient)

Production casing MASP = (reservoir pressure) - (gas gradient)

All collapse calculations assume fully evacuated casing with a gas gradient

All tension calculations assume air weight of casing

Gas gradient = 0.1 psi/ft

All casing shall be new.

All casing strings shall have a minimum of 1 centralizer on each of the bottom 3 joints.

## 5. Cement

Job	Hole Size	Fill	Slurry Description	ft <sup>3</sup>	OH excess	Weight (ppg)	Yield (ft <sup>3</sup> /sk)
				sacks			
Conductor	17 1/2	60'	Class G w/ 2% KCl + 0.25 lbs/sk Cello Flake	41	15%	15.8	1.17
				35			
Surface Lead	12 1/4	2,000'	Premium Lite II w/ 3% KCl + 10% bentonite	720	15%	11.0	3.53
				204			
Surface Tail	12 1/4	500'	Class G w/ 2% KCl + 0.25 lbs/sk Cello Flake	180	15%	15.8	1.17
				154			
Pilot Hole Plug Back	8 3/4	1,016'	50/50 Poz/Class G w/ 3% KCl + 2% bentonite	438	15%	14.3	1.24
				394			
Intermediate Lead	8 3/4	5,905'	Premium Lite II w/ 3% KCl + 10% bentonite	1021	15%	11.0	3.53
				289			
Intermediate Tail	8 3/4	2,530'	50/50 Poz/Class G w/ 3% KCl + 2% bentonite	437	15%	14.3	1.24
				353			
Production	6 1/8		Liner will not be cemented. It will be isolated with a liner top packer.	--	--	--	--
				--			

The surface casing will be cemented to surface. In the event that cement does not reach surface during the primary cement job, a remedial job will be performed.

Actual cement volumes for the pilot hole plug back and the intermediate casing string will be calculated from an open hole caliper log, plus 15% excess.

The production liner will be left uncemented. Individual frac stages will be isolated with open hole packers. A liner top hanger and packer will be installed 50' above KOP.

## 6. Type and Characteristics of Proposed Circulating Medium

<u>Interval</u>	<u>Description</u>
Surface - 2,500'	An air and/or fresh water system will be utilized. If an air rig is used, the blooie line discharge may be less than 100' from the wellbore in order to minimize location size. The blooie line is not equipped with an automatic igniter. The air compressor may be located less than 100' from the well bore due to the low possibility of combustion with the air/dust mixture. Water will be on location to be used as kill fluid, if necessary.
2,500' - TD	A water based mud system will be utilized. Hole stability may be improved with additions of KCl or a similar inhibitive substance. In order to control

formation pressure the system will be weighted with additions of bentonite, and if conditions warrant, with barite.

Anticipated maximum mud weight is 10.5 ppg.

## 7. Logging, Coring, and Testing

**Logging:** A dual induction, gamma ray, and caliper log will be run in the intermediate section from the top of the curve to the base of the surface casing. A compensated neutron/formation density log will be run in the intermediate section from the top of the curve to the top of the Garden Gulch formation. A cement bond log will be run from the top of the curve to the cement top behind the intermediate casing.

**Cores:** As deemed necessary.

**DST:** There are no DST's planned for this well.

## 8. Anticipated Abnormal Pressure or Temperature

Maximum anticipated bottomhole pressure will be approximately equal to total depth (feet) multiplied by a 0.52 psi/ft gradient.

$$8,887' \times 0.52 \text{ psi/ft} = 4621 \text{ psi}$$

No abnormal temperature is expected. No H<sub>2</sub>S is expected.

## 9. Other Aspects

An 8-3/4" vertical hole will be drilled to a kick off point of 8,546' . Directional tools will then be used to build to 92.91 degrees inclination. The 7" intermediate casing string will be set once the well is landed horizontally in the target zone.

The lateral will be drilled to the bottomhole location shown on the plat.

A liner with a system of open hole packers will be used to provide multi-stage frac isolation in the lateral. The top of the liner will be place 50' above KOP and will be isolated with a liner top packer.

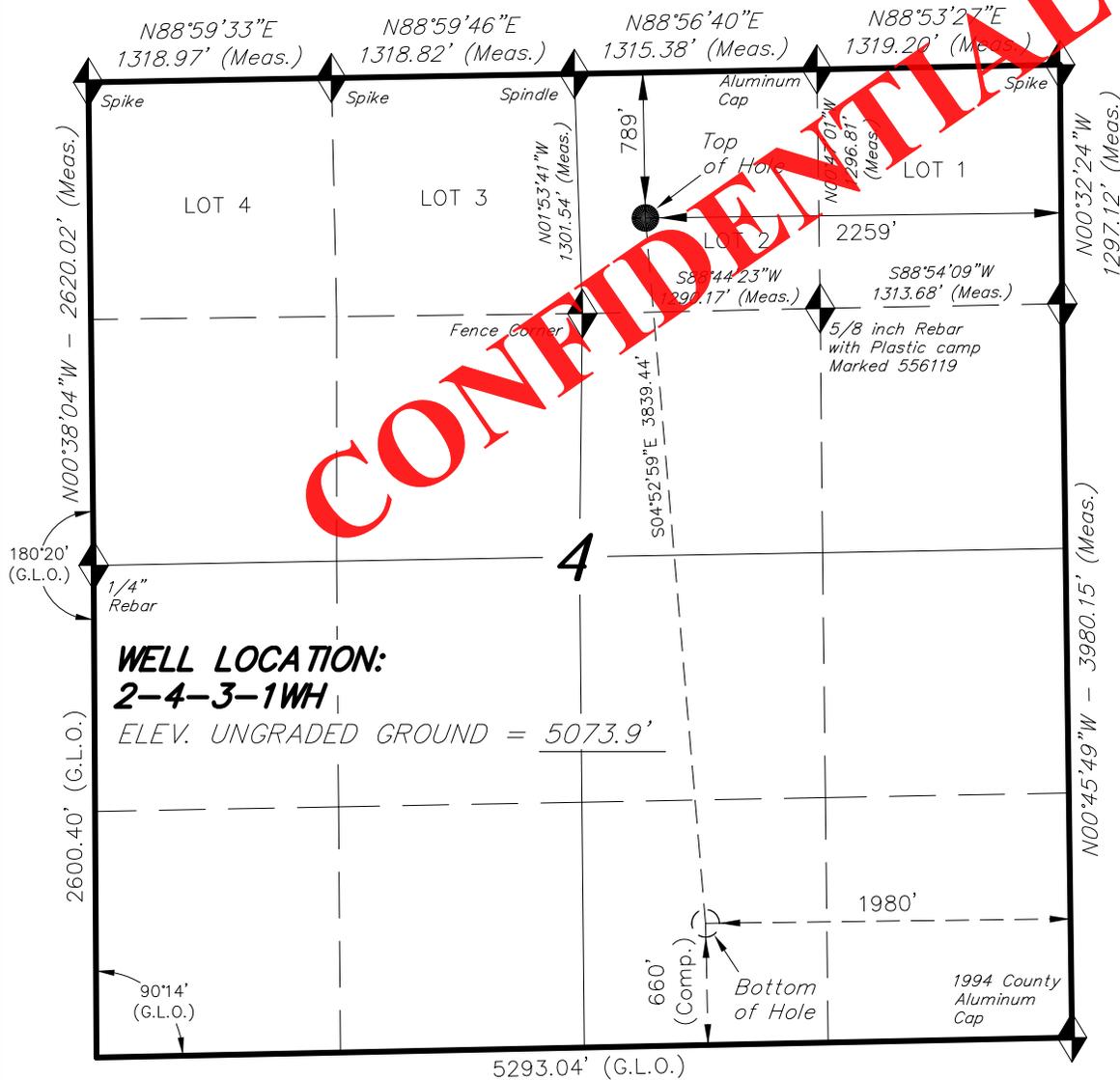
Newfield requests the following variances from Onshore Order #2:

- Variance from Onshoer Order #2, III.E.1

Refer to Newfield Production Company Standard Operating Practices "Ute Tribal Green River Development Program" paragraph 9.0

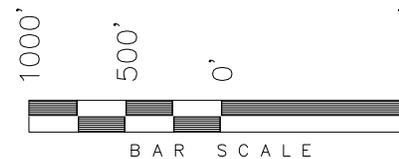
**T3S, R1W, U.S.B.&M.**

**NEWFIELD EXPLORATION COMPANY**



WELL LOCATION, 2-4-3-1WH, LOCATED AS SHOWN IN THE NW 1/4 NE 1/4 (LOT 2) OF SECTION 4, T3S, R1W, U.S.B.&M. DUCHESNE COUNTY, UTAH.

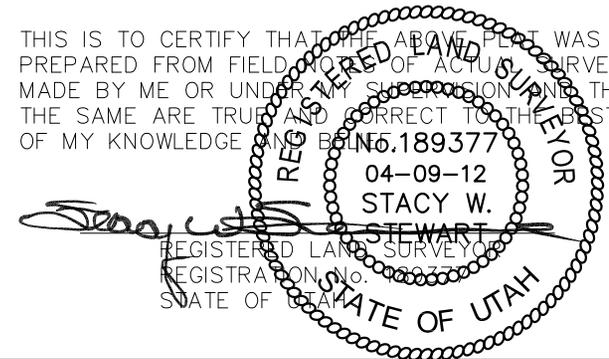
TARGET BOTTOM HOLE, 2-4-3-1WH, LOCATED AS SHOWN IN THE SW 1/4 SE 1/4 OF SECTION 4, T3S, R1W, U.S.B.&M. DUCHESNE COUNTY, UTAH.



**NOTES:**

1. Well footages are measured at right angles to the Section Lines.
2. Bearings are based on Global Positioning Satellite observations.

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



**WELL LOCATION:  
2-4-3-1WH**

ELEV. UNGRADED GROUND = 5073.9'

◆ = SECTION CORNERS LOCATED

BASIS OF ELEV; Elevations are based on an N.G.S. OPUS Correction. LOCATION: LAT. 40°04'09.56" LONG. 110°00'43.28" (Tristate Aluminum Cap) Elev. 5281.57'

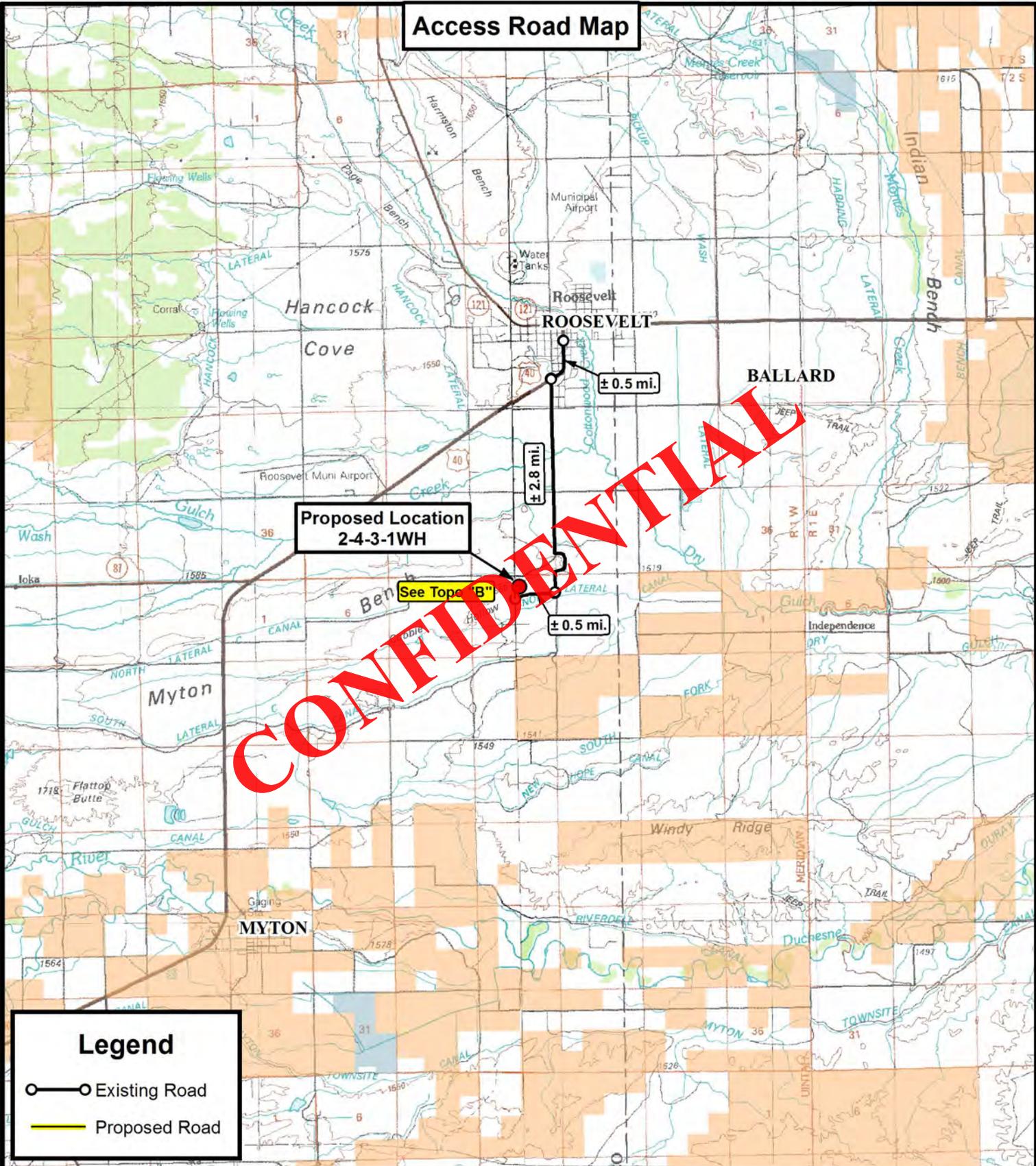
**2-4-3-1WH**  
(Surface Location) NAD 83  
LATITUDE = 40° 15' 23.40"  
LONGITUDE = 109° 59' 59.04"

**TRI STATE LAND SURVEYING & CONSULTING**

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
(435) 781-2501

DATE SURVEYED: 02-20-12	SURVEYED BY: P.H.	VERSION:
DATE DRAWN: 02-29-12	DRAWN BY: R.B.T.	V2
REVISED: 04-09-12 R.B.T.	SCALE: 1" = 1000'	

**Access Road Map**



**Proposed Location  
2-4-3-1WH**

See Topo "B"

**Legend**

- Existing Road
- Proposed Road

**Tri State  
Land Surveying, Inc.**  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

P: (435) 781-2501  
F: (435) 781-2518



**NEWFIELD EXPLORATION COMPANY**

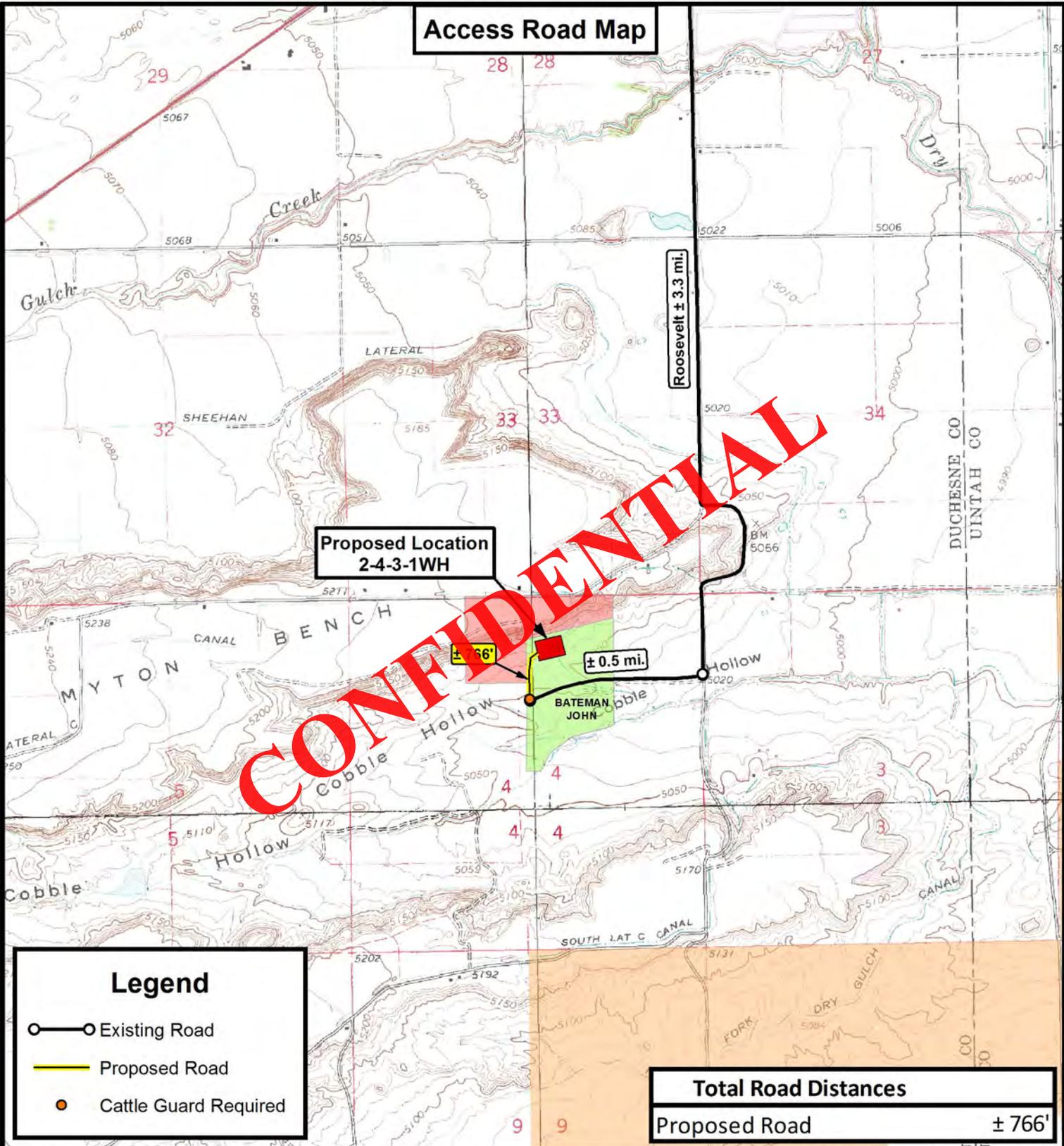
**2-4-3-1WH  
SEC. 4, T3S, R1W, U.S.B.&M.  
Duchesne County, UT.**

DRAWN BY:	D.C.R.	REVISED:	04-09-12 A.P.C.	VERSION:
DATE:	02-28-2012			<b>V2</b>
SCALE:	1:100,000			

**TOPOGRAPHIC MAP**

SHEET  
**A**

**Access Road Map**



**Proposed Location  
2-4-3-1WH**

**Roosevelt ± 3.3 mi.**

**± 766'**

**± 0.5 mi.**

**Legend**

- Existing Road
- Proposed Road
- Cattle Guard Required

<b>Total Road Distances</b>	
Proposed Road	± 766'

THE PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY TRI-STATE LAND SURVEYING, INC. - TRI-STATE DOES NOT WARRANTY PROPERTY PARCEL DATA OR ANY ASSOCIATED INFORMATION. A PROPERTY SURVEY IS REQUIRED TO DETERMINE THE ACTUAL LOCATION OF PROPERTY LINES AND SHOW ACCURATE DISTANCES ACROSS PARCELS.

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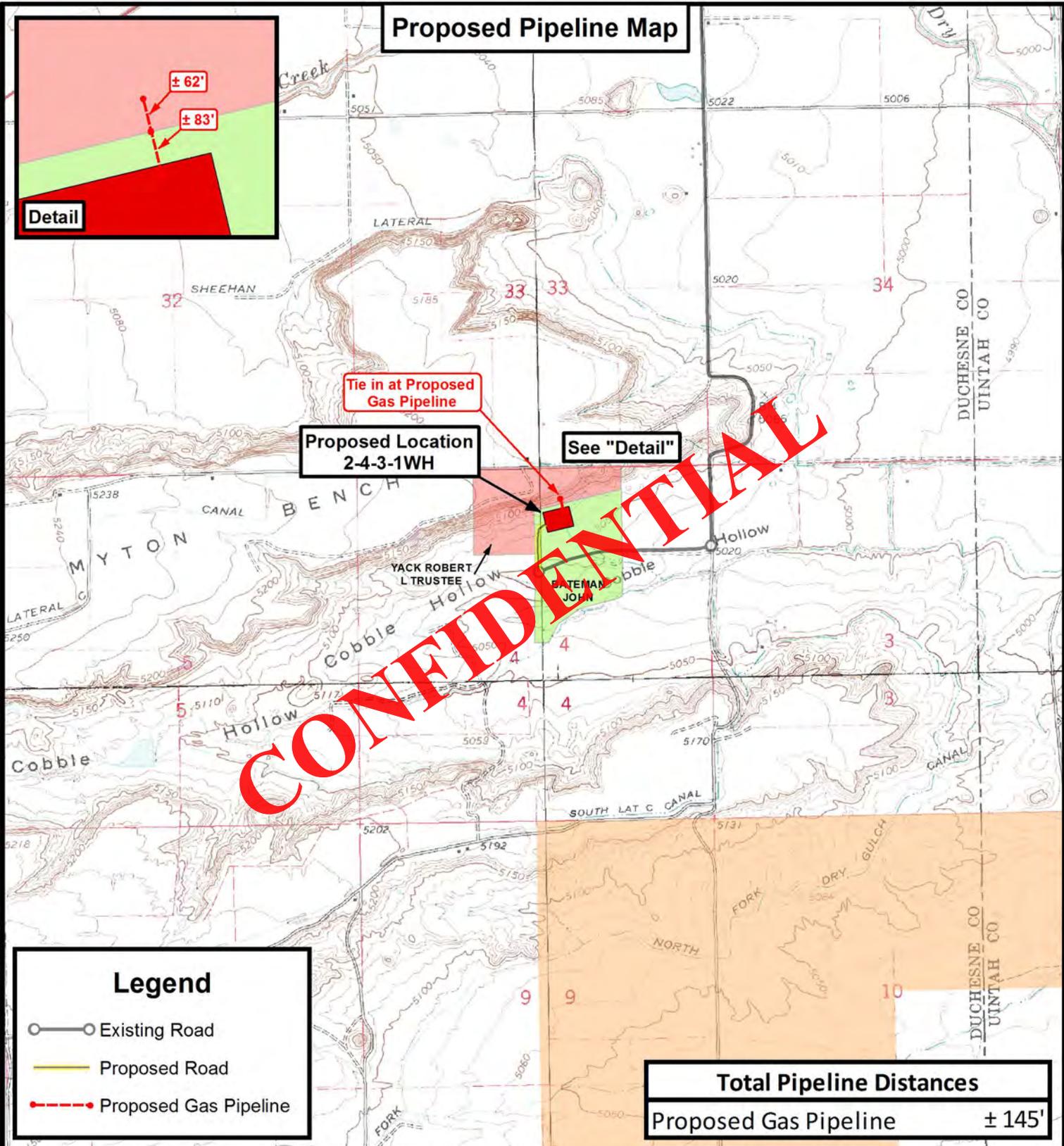
**2-4-3-1WH  
SEC. 4, T3S, R1W, U.S.B.&M.  
Duchesne County, UT.**

DRAWN BY:	D.C.R.	REVISED:	04-09-12 A.P.C.	VERSION:
DATE:	02-28-2012			<b>V2</b>
SCALE:	1" = 2,000'			

**TOPOGRAPHIC MAP**

SHEET  
**B**

**Proposed Pipeline Map**



**Proposed Location 2-4-3-1WH**

**See "Detail"**

**Tie in at Proposed Gas Pipeline**

**Legend**

- Existing Road
- Proposed Road
- Proposed Gas Pipeline

**Total Pipeline Distances**

Proposed Gas Pipeline ± 145'

THE PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY TRI-STATE LAND SURVEYING, INC. - TRI-STATE DOES NOT WARRANTY PROPERTY PARCEL DATA OR ANY ASSOCIATED INFORMATION. A PROPERTY SURVEY IS REQUIRED TO DETERMINE THE ACTUAL LOCATION OF PROPERTY LINES AND SHOW ACCURATE DISTANCES ACROSS PARCELS.

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**NEWFIELD EXPLORATION COMPANY**

2-4-3-1WH  
SEC. 4, T3S, R1W, U.S.B.&M.  
Duchesne County, UT.

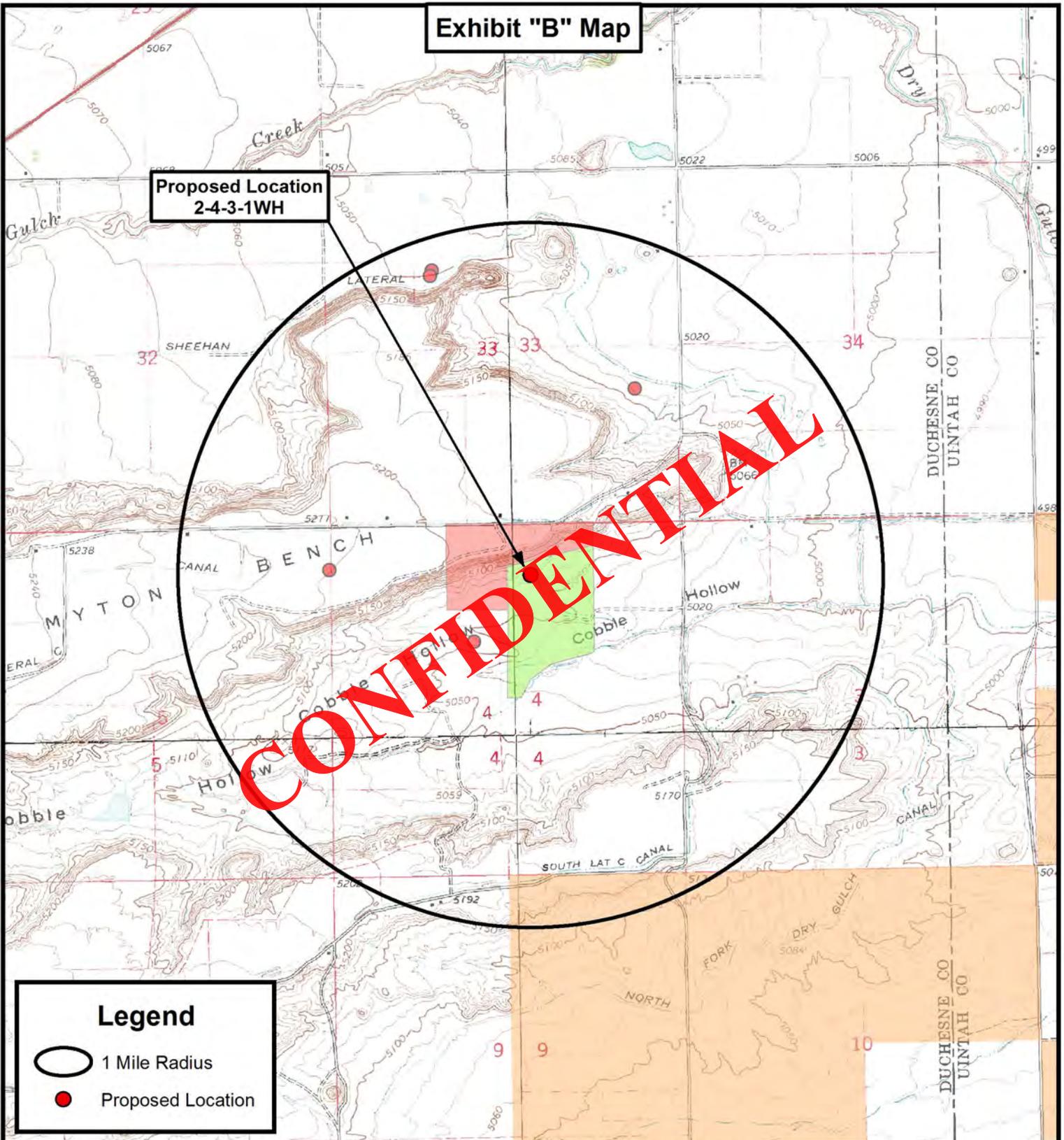
DRAWN BY:	D.C.R.	REVISED:	04-09-12 A.P.C.	VERSION:
DATE:	02-28-2012			<b>V2</b>
SCALE:	1" = 2,000'			

**TOPOGRAPHIC MAP**

SHEET  
**C**

Exhibit "B" Map

Proposed Location  
2-4-3-1WH



**Legend**

-  1 Mile Radius
-  Proposed Location

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**NEWFIELD EXPLORATION COMPANY**

**2-4-3-1WH  
SEC. 4, T3S, R1W, U.S.B.&M.  
Duchesne County, UT.**

DRAWN BY:	D.C.R.	REVISED:	04-09-12 A.P.C.	VERSION:
DATE:	02-28-2012			<b>V2</b>
SCALE:	1" = 2,000'			

**TOPOGRAPHIC MAP**

SHEET  
**D**

**NEWFIELD**



**NEWFIELD EXPLORATION CO.**  
**DUCHESNE COUNTY, UT**  
**POTTER 2-4-3-1WH**

**Plan: Design #1**

**Standard Survey Report**

**17 MAY, 2012**

**CONFIDENTIAL**



**Weatherford®**



Project: DUCHESNE COUNTY, UT  
 Site: POTTER 2-4-3-1WH  
 Well: POTTER 2-4-3-1WH  
 Wellbore: POTTER 2-4-3-1WH  
 Design: Design #1  
 Latitude: 40° 15' 23.400 N  
 Longitude: 109° 59' 59.040 W  
 GL: 5073.90  
 KB: WELL @ 505.90ft (Original Well Elev)



**WELLBORE TARGET DETAILS (LAT/LONG)**

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape Point
PBHL POTTER 2-4-3-1WH	8887.00	-3799.80	327.75	40° 14' 45.848 N	109° 59' 54.813 W	

**WELL DETAILS: POTTER 2-4-3-1WH**

+N/-S	+E/-W	Northing	Ground Level: Easting	5073.90 Latitude	Longitude	Slot
0.00	0.00	7265668.47	2059108.29	40° 15' 23.400 N	109° 59' 59.040 W	

**SECTION DETAILS**

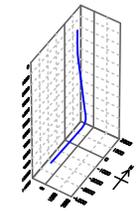
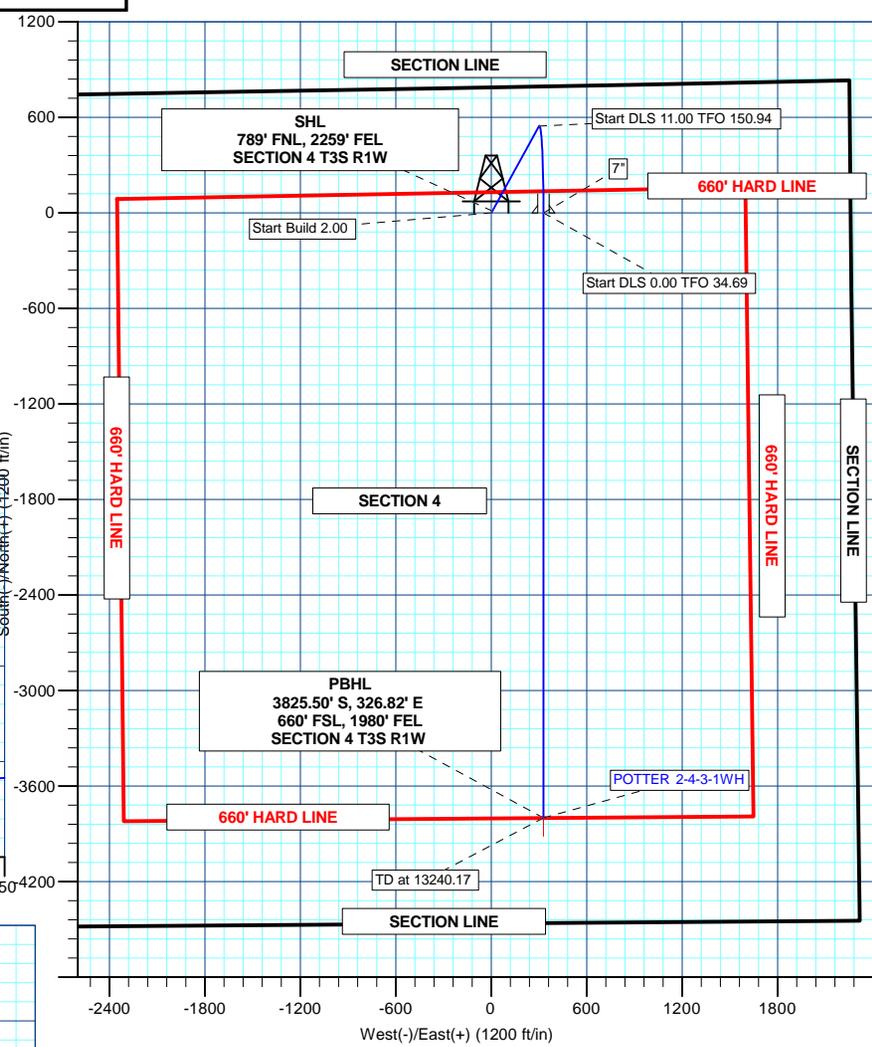
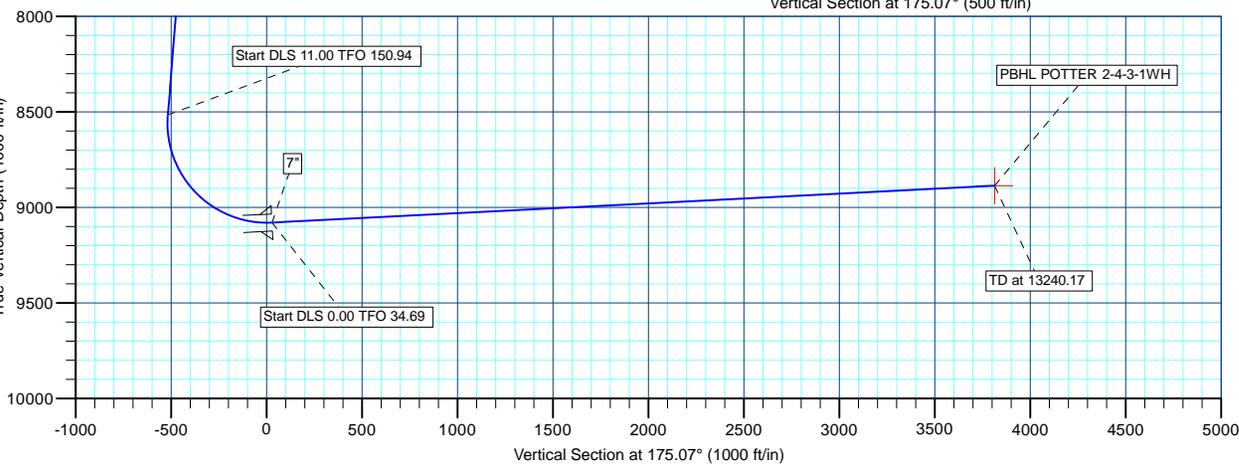
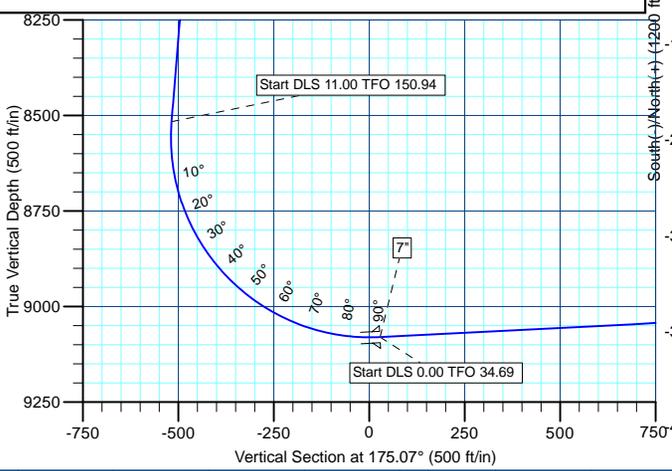
MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	Face	VSec	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00	Start Build 2.00
2278.74	5.57	28.81	2278.30	1.87	6.53	2.00	28.81	-11.27	Start 6267.74 hold at 2278.74 MD
8546.48	5.57	28.81	8516.39	5.38	29.95	0.00	0.00	-517.58	Start DLS 11.00 TFO 150.94
9435.46	92.91	180.00	9080.24	0.00	37.90	11.00	150.94	28.18	Start DLS 0.00 TFO 34.69
13240.17	92.91	180.00	8877.00	-3799.80	327.75	0.00	34.69	3813.91	TD at 13240.17

Azimuths to True North  
Magnetic North: 11.24°

Magnetic Field  
Strength: 52251.0snT  
Dip Angle: 65.94°  
Date: 5/17/2012  
Model: BGGM2011

**CASING DETAILS**

TVD	MD	Name	Size
9080.24	9435.46		7" 7



**NEWFIELD**



**NEWFIELD EXPLORATION CO.**

DUCHESNE COUNTY, UT

POTTER 2-4-3-1WH

POTTER 2-4-3-1WH

POTTER 2-4-3-1WH

Plan: Design #1

**Standard Planning Report**

17 May 2012

**CONFIDENTIAL**



**Weatherford®**



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well POTTER 2-4-3-1WH
<b>Company:</b>	NEWFIELD EXPLORATION CO.	<b>TVD Reference:</b>	WELL @ 5091.90ft (Original Well Elev)
<b>Project:</b>	DUCHESNE COUNTY, UT	<b>MD Reference:</b>	WELL @ 5091.90ft (Original Well Elev)
<b>Site:</b>	POTTER 2-4-3-1WH	<b>North Reference:</b>	True
<b>Well:</b>	POTTER 2-4-3-1WH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	POTTER 2-4-3-1WH		
<b>Design:</b>	Design #1		

<b>Project</b>	DUCHESNE COUNTY, UT		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Utah Central Zone		

<b>Site</b>	POTTER 2-4-3-1WH				
<b>Site Position:</b>		<b>Northing:</b>	7,265,668.47 ft	<b>Latitude:</b>	40° 15' 23.400 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,059,108.29 ft	<b>Longitude:</b>	109° 59' 59.040 W
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	"	<b>Grid Convergence:</b>	0.96 °

<b>Well</b>	POTTER 2-4-3-1WH					
<b>Well Position</b>	<b>+N/-S</b>	0.00 ft	<b>Northing:</b>	7,265,668.47 ft	<b>Latitude:</b>	40° 15' 23.400 N
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b>	2,059,108.29 ft	<b>Longitude:</b>	109° 59' 59.040 W
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	5,073.90 ft

<b>Wellbore</b>	POTTER 2-4-3-1WH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	BGGM2011	5/17/2012	11.24	65.94	52,251

<b>Design</b>	Design #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	175.07

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,278.74	5.57	28.81	2,278.30	11.87	6.53	2.00	2.00	0.00	28.81	
8,546.48	5.57	28.81	8,516.39	545.38	299.95	0.00	0.00	0.00	0.00	
9,435.46	92.91	180.00	9,080.24	0.00	327.90	11.00	9.82	17.01	150.94	
13,240.17	92.91	180.00	8,887.00	-3,799.80	327.75	0.00	0.00	0.00	34.69	PBHL POTTER 2-4



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well POTTER 2-4-3-1WH
<b>Company:</b>	NEWFIELD EXPLORATION CO.	<b>TVD Reference:</b>	WELL @ 5091.90ft (Original Well Elev)
<b>Project:</b>	DUCHESNE COUNTY, UT	<b>MD Reference:</b>	WELL @ 5091.90ft (Original Well Elev)
<b>Site:</b>	POTTER 2-4-3-1WH	<b>North Reference:</b>	True
<b>Well:</b>	POTTER 2-4-3-1WH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	POTTER 2-4-3-1WH		
<b>Design:</b>	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Start Build 2.00</b>									
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	2.00	28.81	2,099.98	1.53	0.84	-1.45	2.00	2.00	0.00
2,200.00	4.00	28.81	2,199.84	6.11	3.36	-5.80	2.00	2.00	0.00
<b>Start 6267.74 hold at 2278.74 MD</b>									
2,278.74	5.57	28.81	2,278.30	11.87	6.53	-11.27	2.00	2.00	0.00
2,300.00	5.57	28.81	2,299.46	13.68	7.53	-12.98	0.00	0.00	0.00
2,400.00	5.57	28.81	2,398.99	22.19	12.21	-21.06	0.00	0.00	0.00
2,500.00	5.57	28.81	2,498.51	30.71	16.89	-29.14	0.00	0.00	0.00
2,600.00	5.57	28.81	2,598.04	39.22	21.57	-37.22	0.00	0.00	0.00
2,700.00	5.57	28.81	2,697.57	47.73	26.25	-45.30	0.00	0.00	0.00
2,800.00	5.57	28.81	2,797.10	56.24	30.93	-53.38	0.00	0.00	0.00
2,900.00	5.57	28.81	2,896.62	64.75	35.61	-61.45	0.00	0.00	0.00
3,000.00	5.57	28.81	2,996.15	73.27	40.30	-69.53	0.00	0.00	0.00
3,100.00	5.57	28.81	3,095.68	81.78	44.98	-77.61	0.00	0.00	0.00
3,200.00	5.57	28.81	3,195.20	90.29	49.66	-85.69	0.00	0.00	0.00
3,300.00	5.57	28.81	3,294.73	98.80	54.34	-93.77	0.00	0.00	0.00
3,400.00	5.57	28.81	3,394.26	107.31	59.02	-101.84	0.00	0.00	0.00
3,500.00	5.57	28.81	3,493.78	115.83	63.70	-109.92	0.00	0.00	0.00
3,600.00	5.57	28.81	3,593.31	124.34	68.38	-118.00	0.00	0.00	0.00
3,700.00	5.57	28.81	3,692.84	132.85	73.07	-126.08	0.00	0.00	0.00
3,800.00	5.57	28.81	3,792.37	141.36	77.75	-134.16	0.00	0.00	0.00
3,900.00	5.57	28.81	3,891.89	149.87	82.43	-142.23	0.00	0.00	0.00
4,000.00	5.57	28.81	3,991.42	158.38	87.11	-150.31	0.00	0.00	0.00
4,100.00	5.57	28.81	4,090.95	166.90	91.79	-158.39	0.00	0.00	0.00
4,200.00	5.57	28.81	4,190.47	175.41	96.47	-166.47	0.00	0.00	0.00
4,300.00	5.57	28.81	4,290.00	183.92	101.15	-174.55	0.00	0.00	0.00
4,400.00	5.57	28.81	4,389.53	192.43	105.84	-182.63	0.00	0.00	0.00
4,500.00	5.57	28.81	4,489.05	200.94	110.52	-190.70	0.00	0.00	0.00
4,600.00	5.57	28.81	4,588.58	209.46	115.20	-198.78	0.00	0.00	0.00
4,700.00	5.57	28.81	4,688.11	217.97	119.88	-206.86	0.00	0.00	0.00
4,800.00	5.57	28.81	4,787.64	226.48	124.56	-214.94	0.00	0.00	0.00
4,900.00	5.57	28.81	4,887.16	234.99	129.24	-223.02	0.00	0.00	0.00
5,000.00	5.57	28.81	4,986.69	243.50	133.93	-231.09	0.00	0.00	0.00



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well POTTER 2-4-3-1WH
<b>Company:</b>	NEWFIELD EXPLORATION CO.	<b>TVD Reference:</b>	WELL @ 5091.90ft (Original Well Elev)
<b>Project:</b>	DUCHESNE COUNTY, UT	<b>MD Reference:</b>	WELL @ 5091.90ft (Original Well Elev)
<b>Site:</b>	POTTER 2-4-3-1WH	<b>North Reference:</b>	True
<b>Well:</b>	POTTER 2-4-3-1WH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	POTTER 2-4-3-1WH		
<b>Design:</b>	Design #1		

**Planned Survey**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,100.00	5.57	28.81	5,086.22	252.02	138.61	-239.17	0.00	0.00	0.00
5,200.00	5.57	28.81	5,185.74	260.53	143.29	-247.25	0.00	0.00	0.00
5,300.00	5.57	28.81	5,285.27	269.04	147.97	-255.33	0.00	0.00	0.00
5,400.00	5.57	28.81	5,384.80	277.55	152.65	-263.41	0.00	0.00	0.00
5,500.00	5.57	28.81	5,484.33	286.06	157.33	-271.48	0.00	0.00	0.00
5,600.00	5.57	28.81	5,583.85	294.58	162.01	-279.56	0.00	0.00	0.00
5,700.00	5.57	28.81	5,683.38	303.09	166.70	-287.64	0.00	0.00	0.00
5,800.00	5.57	28.81	5,782.91	311.60	171.38	-295.72	0.00	0.00	0.00
5,900.00	5.57	28.81	5,882.43	320.11	176.06	-303.80	0.00	0.00	0.00
6,000.00	5.57	28.81	5,981.96	328.62	180.74	-311.87	0.00	0.00	0.00
6,100.00	5.57	28.81	6,081.49	337.13	185.42	-319.95	0.00	0.00	0.00
6,200.00	5.57	28.81	6,181.01	345.65	190.10	-328.03	0.00	0.00	0.00
6,300.00	5.57	28.81	6,280.54	354.16	194.78	-336.11	0.00	0.00	0.00
6,400.00	5.57	28.81	6,380.07	362.67	199.47	-344.19	0.00	0.00	0.00
6,500.00	5.57	28.81	6,479.60	371.18	204.15	-352.27	0.00	0.00	0.00
6,600.00	5.57	28.81	6,579.12	379.69	208.83	-360.34	0.00	0.00	0.00
6,700.00	5.57	28.81	6,678.65	388.21	213.51	-368.42	0.00	0.00	0.00
6,800.00	5.57	28.81	6,778.18	396.72	218.19	-376.50	0.00	0.00	0.00
6,900.00	5.57	28.81	6,877.70	405.23	222.87	-384.58	0.00	0.00	0.00
7,000.00	5.57	28.81	6,977.23	413.74	227.56	-392.66	0.00	0.00	0.00
7,100.00	5.57	28.81	7,076.76	422.25	232.24	-400.73	0.00	0.00	0.00
7,200.00	5.57	28.81	7,176.28	430.77	236.92	-408.81	0.00	0.00	0.00
7,300.00	5.57	28.81	7,275.81	439.28	241.60	-416.89	0.00	0.00	0.00
7,400.00	5.57	28.81	7,375.34	447.79	246.28	-424.97	0.00	0.00	0.00
7,500.00	5.57	28.81	7,474.87	456.30	250.96	-433.05	0.00	0.00	0.00
7,600.00	5.57	28.81	7,574.39	464.81	255.64	-441.12	0.00	0.00	0.00
7,700.00	5.57	28.81	7,673.92	473.33	260.33	-449.20	0.00	0.00	0.00
7,800.00	5.57	28.81	7,773.45	481.84	265.01	-457.28	0.00	0.00	0.00
7,900.00	5.57	28.81	7,872.97	490.35	269.69	-465.36	0.00	0.00	0.00
8,000.00	5.57	28.81	7,972.50	498.86	274.37	-473.44	0.00	0.00	0.00
8,100.00	5.57	28.81	8,072.03	507.37	279.05	-481.52	0.00	0.00	0.00
8,200.00	5.57	28.81	8,171.56	515.88	283.73	-489.59	0.00	0.00	0.00
8,300.00	5.57	28.81	8,271.08	524.40	288.41	-497.67	0.00	0.00	0.00
8,400.00	5.57	28.81	8,370.61	532.91	293.10	-505.75	0.00	0.00	0.00
8,500.00	5.57	28.81	8,470.14	541.42	297.78	-513.83	0.00	0.00	0.00
<b>Start DLS 11.00 TFO 150.94</b>									
8,546.48	5.57	28.81	8,516.39	545.38	299.95	-517.58	0.00	0.00	0.00
8,550.00	5.24	30.87	8,519.90	545.66	300.12	-517.85	11.00	-9.52	58.53
8,600.00	2.89	110.37	8,569.80	547.19	302.47	-519.17	11.00	-4.70	159.00
8,650.00	7.05	157.40	8,619.62	543.91	304.83	-515.71	11.00	8.32	94.06
8,700.00	12.31	167.36	8,668.89	535.88	307.18	-507.50	11.00	10.52	19.91
8,750.00	17.71	171.36	8,717.17	523.15	309.49	-494.61	11.00	10.81	8.00
8,800.00	23.16	173.52	8,764.01	505.84	311.75	-477.18	11.00	10.90	4.33
8,850.00	28.63	174.90	8,808.97	484.13	313.92	-455.36	11.00	10.93	2.75
8,900.00	34.11	175.86	8,851.65	458.19	316.00	-429.34	11.00	10.95	1.93
8,950.00	39.59	176.59	8,891.64	428.29	317.96	-399.38	11.00	10.97	1.45
9,000.00	45.07	177.16	8,928.59	394.68	319.79	-365.74	11.00	10.97	1.15
9,050.00	50.56	177.64	8,962.15	357.68	321.46	-328.73	11.00	10.98	0.95
9,100.00	56.05	178.04	8,992.02	317.63	322.97	-288.70	11.00	10.98	0.81
9,150.00	61.55	178.40	9,017.91	274.90	324.30	-246.01	11.00	10.98	0.71
9,200.00	67.04	178.72	9,039.59	229.88	325.43	-201.06	11.00	10.98	0.64
9,250.00	72.53	179.01	9,056.86	182.98	326.36	-154.26	11.00	10.99	0.59
9,300.00	78.02	179.29	9,069.56	134.65	327.07	-106.04	11.00	10.99	0.56
9,350.00	83.52	179.55	9,077.58	85.32	327.57	-56.85	11.00	10.99	0.53



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well POTTER 2-4-3-1WH
<b>Company:</b>	NEWFIELD EXPLORATION CO.	<b>TVD Reference:</b>	WELL @ 5091.90ft (Original Well Elev)
<b>Project:</b>	DUCHESNE COUNTY, UT	<b>MD Reference:</b>	WELL @ 5091.90ft (Original Well Elev)
<b>Site:</b>	POTTER 2-4-3-1WH	<b>North Reference:</b>	True
<b>Well:</b>	POTTER 2-4-3-1WH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	POTTER 2-4-3-1WH		
<b>Design:</b>	Design #1		

**Planned Survey**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,400.00	89.01	179.82	9,080.83	35.45	327.84	-7.14	11.00	10.99	0.52
<b>Start DLS 0.00 TFO 34.69 - 7"</b>									
9,435.46	92.91	180.00	9,080.24	0.00	327.90	28.18	11.00	10.99	0.52
9,500.00	92.91	180.00	9,076.97	-64.46	327.90	92.40	0.00	0.00	0.00
9,600.00	92.91	180.00	9,071.89	-164.33	327.90	191.90	0.00	0.00	0.00
9,700.00	92.91	180.00	9,066.82	-264.20	327.90	291.40	0.00	0.00	0.00
9,800.00	92.91	180.00	9,061.74	-364.07	327.90	390.90	0.00	0.00	0.00
9,900.00	92.91	180.00	9,056.67	-463.94	327.90	490.40	0.00	0.00	0.00
10,000.00	92.91	180.00	9,051.59	-563.82	327.90	589.91	0.00	0.00	0.00
10,100.00	92.91	180.00	9,046.52	-663.69	327.90	689.41	0.00	0.00	0.00
10,200.00	92.91	180.00	9,041.44	-763.56	327.89	788.91	0.00	0.00	0.00
10,300.00	92.91	180.00	9,036.37	-863.43	327.89	888.41	0.00	0.00	0.00
10,400.00	92.91	180.00	9,031.29	-963.30	327.89	987.91	0.00	0.00	0.00
10,500.00	92.91	180.00	9,026.21	-1,063.17	327.89	1,087.42	0.00	0.00	0.00
10,600.00	92.91	180.00	9,021.14	-1,163.04	327.89	1,186.92	0.00	0.00	0.00
10,700.00	92.91	180.00	9,016.06	-1,262.91	327.88	1,286.42	0.00	0.00	0.00
10,800.00	92.91	180.00	9,010.98	-1,362.78	327.88	1,385.92	0.00	0.00	0.00
10,900.00	92.91	180.00	9,005.91	-1,462.66	327.88	1,485.42	0.00	0.00	0.00
11,000.00	92.91	180.00	9,000.83	-1,562.53	327.88	1,584.92	0.00	0.00	0.00
11,100.00	92.91	180.00	8,995.75	-1,662.40	327.87	1,684.42	0.00	0.00	0.00
11,200.00	92.91	180.00	8,990.67	-1,762.27	327.87	1,783.92	0.00	0.00	0.00
11,300.00	92.91	180.00	8,985.59	-1,862.14	327.86	1,883.43	0.00	0.00	0.00
11,400.00	92.91	180.00	8,980.51	-1,962.01	327.86	1,982.93	0.00	0.00	0.00
11,500.00	92.91	180.00	8,975.43	-2,061.88	327.86	2,082.43	0.00	0.00	0.00
11,600.00	92.91	180.00	8,970.36	-2,161.75	327.85	2,181.93	0.00	0.00	0.00
11,700.00	92.91	180.00	8,965.28	-2,261.62	327.85	2,281.43	0.00	0.00	0.00
11,800.00	92.91	180.00	8,960.20	-2,361.49	327.84	2,380.93	0.00	0.00	0.00
11,900.00	92.91	180.00	8,955.11	-2,461.36	327.84	2,480.43	0.00	0.00	0.00
12,000.00	92.91	180.00	8,950.03	-2,561.24	327.83	2,579.93	0.00	0.00	0.00
12,100.00	92.91	180.00	8,944.95	-2,661.11	327.83	2,679.43	0.00	0.00	0.00
12,200.00	92.91	180.00	8,939.87	-2,760.98	327.82	2,778.94	0.00	0.00	0.00
12,300.00	92.91	180.00	8,934.79	-2,860.85	327.82	2,878.44	0.00	0.00	0.00
12,400.00	92.91	180.00	8,929.71	-2,960.72	327.81	2,977.94	0.00	0.00	0.00
12,500.00	92.91	180.00	8,924.63	-3,060.59	327.81	3,077.44	0.00	0.00	0.00
12,600.00	92.91	180.00	8,919.54	-3,160.46	327.80	3,176.94	0.00	0.00	0.00
12,700.00	92.91	180.00	8,914.46	-3,260.33	327.79	3,276.44	0.00	0.00	0.00
12,800.00	92.91	180.00	8,909.38	-3,360.20	327.79	3,375.94	0.00	0.00	0.00
12,900.00	92.91	180.00	8,904.29	-3,460.07	327.78	3,475.44	0.00	0.00	0.00
13,000.00	92.91	180.00	8,899.21	-3,559.94	327.77	3,574.94	0.00	0.00	0.00
13,100.00	92.91	180.00	8,894.13	-3,659.81	327.76	3,674.44	0.00	0.00	0.00
13,200.00	92.91	180.00	8,889.04	-3,759.68	327.76	3,773.94	0.00	0.00	0.00
<b>TD at 13240.17 - PBHL POTTER 2-4-3-1WH</b>									
13,240.17	92.91	180.00	8,887.00	-3,799.80	327.75	3,813.91	0.00	0.00	0.00



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well POTTER 2-4-3-1WH
<b>Company:</b>	NEWFIELD EXPLORATION CO.	<b>TVD Reference:</b>	WELL @ 5091.90ft (Original Well Elev)
<b>Project:</b>	DUCHESNE COUNTY, UT	<b>MD Reference:</b>	WELL @ 5091.90ft (Original Well Elev)
<b>Site:</b>	POTTER 2-4-3-1WH	<b>North Reference:</b>	True
<b>Well:</b>	POTTER 2-4-3-1WH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	POTTER 2-4-3-1WH		
<b>Design:</b>	Design #1		

**Design Targets**

Target Name	- hit/miss target	- Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
PBHL POTTER 2-4-3-			0.00	0.00	8,887.00	-3,799.80	327.75	7,261,874.71	2,059,499.73	40° 14' 45.848 N	109° 59' 54.813 W
	- plan hits target center										
	- Point										

**Casing Points**

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
9,435.46	9,080.24	7"	7	8-3/4

**Plan Annotations**

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
2,000.00	2,000.00	0.00	0.00	Start Build 2.00
2,278.74	2,278.30	1.87	6.53	Start 6267.74 hold at 2278.74 MD
8,546.48	8,516.39	545.38	299.95	Start DLS 11.00 TFO 150.94
9,435.46	9,080.24	0.00	327.90	Start DLS 0.00 TFO 34.69
13,240.17	8,887.00	-3,799.80	327.75	TD at 13240.17

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**AFFIDAVIT OF EASEMENT, RIGHT-OF-WAY AND SURFACE USE AGREEMENT**

Greg Boggs personally appeared before me, being duly sworn, deposes and with respect to State of Utah R649-3-34.7 says:

1. My name is Greg Boggs. I am a Landman for Newfield Production Company, whose address is 1001 17<sup>th</sup> Street, Suite 2000, Denver, CO 80202 (“Newfield”).
2. Newfield is the Operator of the proposed Potter 2-4-3-1WH well with a surface location to be positioned in the NWNE of Section 4, Township 3 South, Range 1 West, Duchesne County, Utah (the “Drillsite Location”) with a bottom hole location in the SWSE of Section 4, Township 3 South, Range 1 West, Duchesne County, Utah. The surface owner of the Drillsite Location is John R. and Stacey A. Bateman, whose address is RR 2 Box 2020, Roosevelt, UT 84066 (“Surface Owner”).
3. Newfield and the Surface Owner have agreed upon an Easement, Right-of-Way and Surface Use Agreement dated April 24, 2012 covering the Drillsite Location and access to the Drillsite Location.

FURTHER AFFIANT SAYETH NO.

**CONFIDENTIAL**

*Greg Boggs*

ACKNOWLEDGEMENT

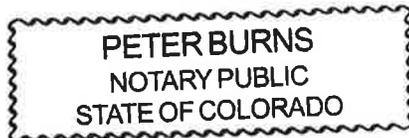
STATE OF COLORADO           §  
  §  
COUNTY OF DENVER           §

Before me, a Notary Public, in and for the State, on this 11 day of May, 2012, personally appeared Greg Boggs, to me known to be the identical person who executed the foregoing instrument, and acknowledged to me that he executed the same as his own free and voluntary act and deed for the uses and purposes therein set forth.

*P. Burns*

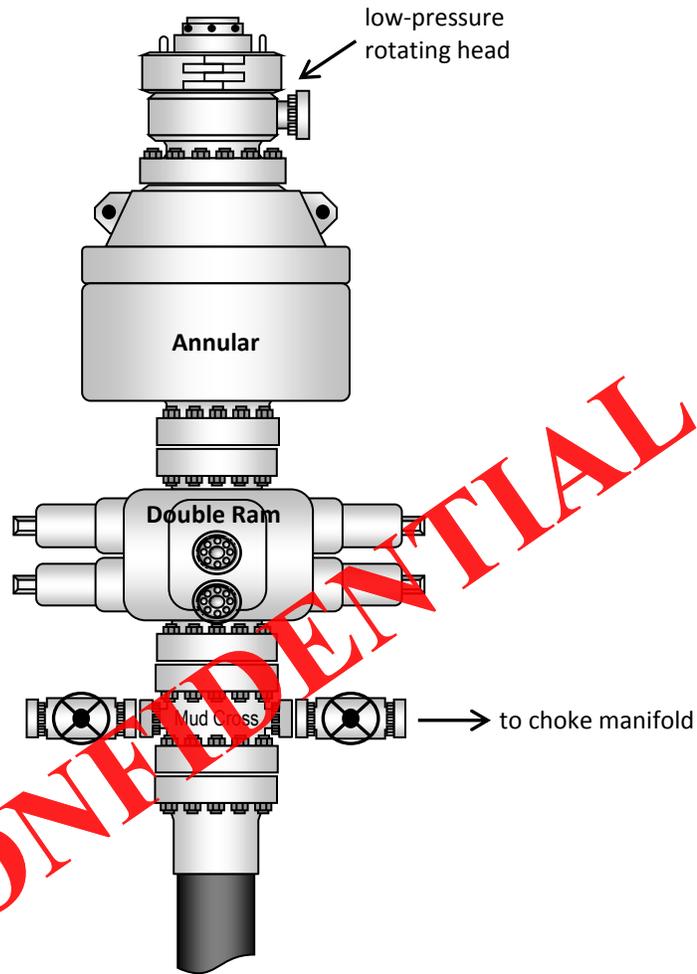
NOTARY PUBLIC

My Commission Expires:



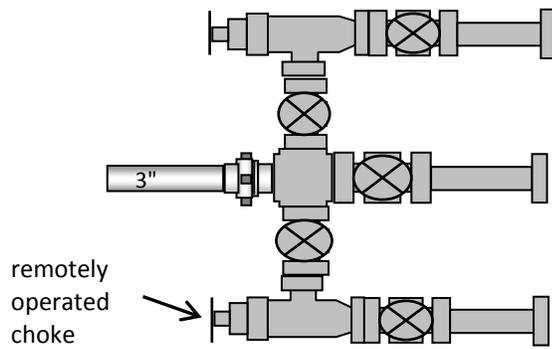
My Commission Expires 8/09/2015

### Typical 5M BOP stack configuration



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### Typical 5M choke manifold configuration



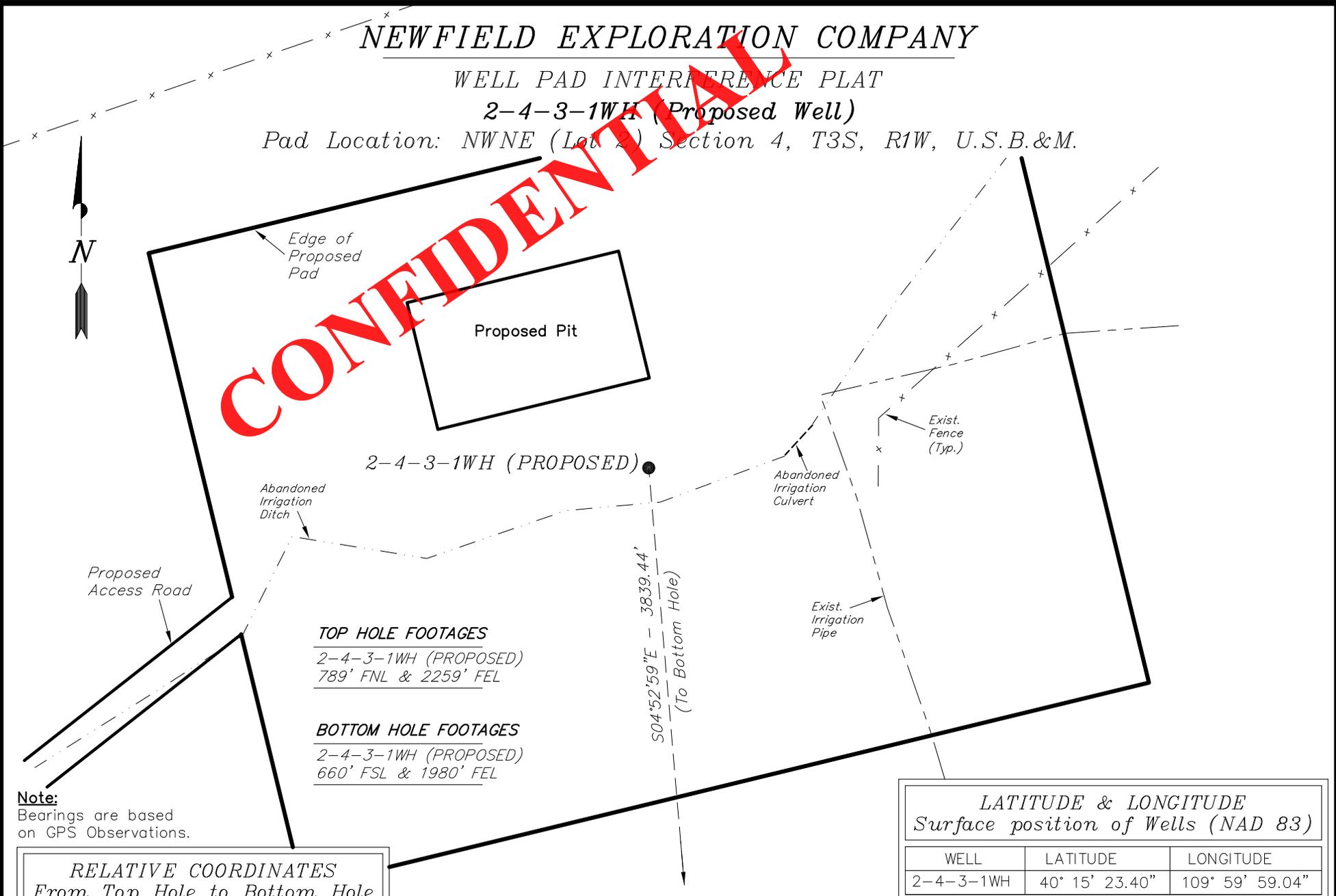
**NEWFIELD EXPLORATION COMPANY**

**WELL PAD INTERFERENCE PLAT**

**2-4-3-1WH (Proposed Well)**

Pad Location: NWNE (Lot 2) Section 4, T3S, R1W, U.S.B.&M.

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**Note:**  
Bearings are based on GPS Observations.

**RELATIVE COORDINATES**  
From Top Hole to Bottom Hole

WELL	NORTH	EAST
2-4-3-1WH	-3,826'	327'

**TOP HOLE FOOTAGES**  
2-4-3-1WH (PROPOSED)  
789' FNL & 2259' FEL

**BOTTOM HOLE FOOTAGES**  
2-4-3-1WH (PROPOSED)  
660' FSL & 1980' FEL

S04°52'59"E - 3839.44'  
(To Bottom Hole)

**LATITUDE & LONGITUDE**  
Surface position of Wells (NAD 83)

WELL	LATITUDE	LONGITUDE
2-4-3-1WH	40° 15' 23.40"	109° 59' 59.04"

SURVEYED BY: P.H.	DATE SURVEYED: 02-20-12	VERSION:
DRAWN BY: R.B.T	DATE DRAWN: 02-29-12	V2
SCALE: 1" = 60'	REVISED: R.B.T 04-09-12	

**Tri State** (435) 781-2501  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# NEWFIELD EXPLORATION COMPANY

## PROPOSED LOCATION LAYOUT

### 2-4-3-1WH

Pad Location: NWNE (Lot 2) Section 4, T3S, R1W, U.S.B.&M.

Existing Fence

TOPSOIL STOCKPILE

Approx. Dims. = 130'x40'x4' Max.  
Approx. Area = 5,542 Sq. Ft.  
±660 Cu. Yds.

Top of Cut Slope

DISTURBANCE BOUNDARY

PROPOSED ACCESS ROAD  
(Max. 6% Grade)

F/9.5

STA. 4+00

C/0.1

C/13.9

2' High Perimeter Berm  
Required Except Where Cut  
Slopes Exceed this Height.

Abandoned  
Irrigation  
Ditch

Proposed  
Pipeline

STA. 2+75

C/2.7

C/6.8

RESERVE PIT  
(8' Deep)

EXCESS MATERIAL  
Approx. Dims. = 305'x30'x8'  
Approx. Area = 9,017 Sq. Ft.  
±1,560 Cu. Yds.

F/7.5

STA. 2+00

C/2.2

C/4.6

C/4.8

C/8.2

WELL HEAD:  
UNGRADED = 5073.9'  
FIN. GRADE = 5071.7'

Note:  
Flare pit is to be  
located a Minimum  
of 100' from the  
Proposed Well Head.

FLARE  
PIT

Toe of  
Fill Slope

Abandoned  
Irrigation  
Culvert

Existing  
Irrigation  
Pipe

Existing  
Fence

Note:  
Topsoil to be Stripped From All  
New Construction Areas and  
Proposed Stock Pile Locations

**REFERENCE POINTS**

- 225' NORTHEASTERLY = 5068.6'
- 250' NORTHEASTERLY = 5067.8'
- 200' SOUTHEASTERLY = 5061.4'
- 250' SOUTHEASTERLY = 5059.8'

TOPSOIL STOCKPILE  
Approx. Height = 4' Max.  
Approx. Area = 17,084 Sq. Ft.  
±2,290 Cu. Yds.

STA. 0+00

F/10.8

F/2.4

C/7.2

NOTE:  
The topsoil & excess material areas are calculated as being mounds containing 4,510 cubic yards of dirt (a 10% fluff factor is included). The mound areas are calculated with push slopes of 1.5:1 & fall slopes of 1.5:1.

SURVEYED BY: P.H.	DATE SURVEYED: 02-20-12	VERSION:
DRAWN BY: R.B.T.	DATE DRAWN: 02-27-12	V2
SCALE: 1" = 60'	REVISED: R.B.T. 04-09-12	

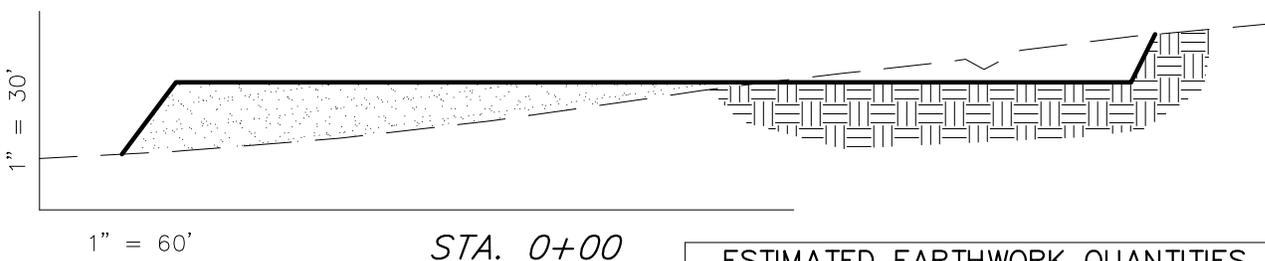
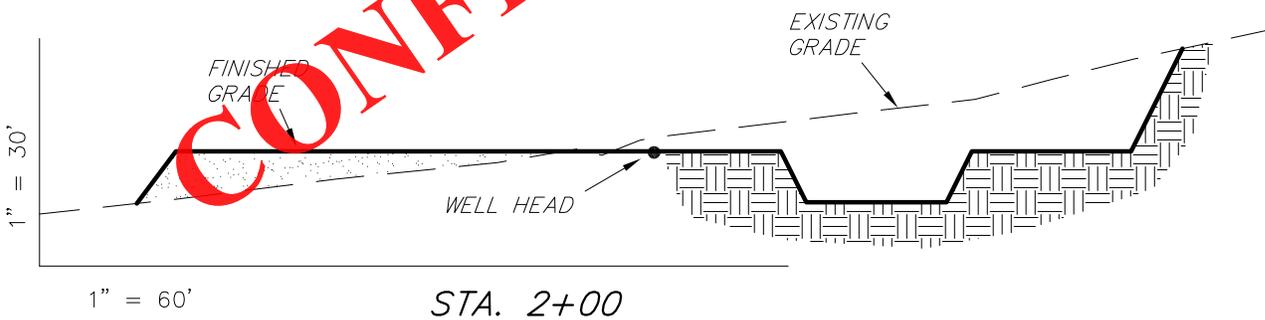
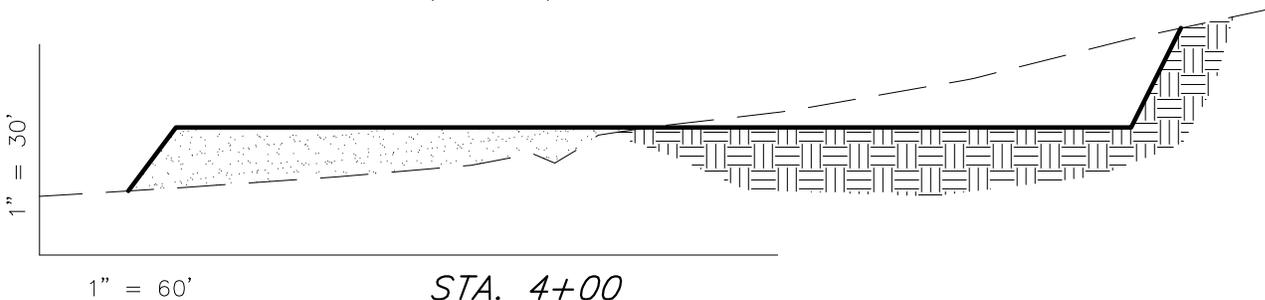
**Tri State** (435) 781-2501  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# NEWFIELD EXPLORATION COMPANY

## CROSS SECTIONS

### 2-4-3-1WH

Pad Location: NWNE (Lot 2) Section 4, T3S, R1W, U.S.B.&M.



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NOTE:  
UNLESS OTHERWISE NOTED  
CUT SLOPES ARE AT 1:1  
FILL SLOPES ARE AT 1.5:1

ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards)				
ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	12,760	12,760	Topsoil is not included in Pad Cut Volume	0
PIT	1,420	0		1,420
TOTALS	14,180	12,760	2,680	1,420

SURVEYED BY: P.H.	DATE SURVEYED: 02-20-12	VERSION:
DRAWN BY: R.B.T.	DATE DRAWN: 02-27-12	V2
SCALE: 1" = 60'	REVISED: R.B.T. 04-09-12	

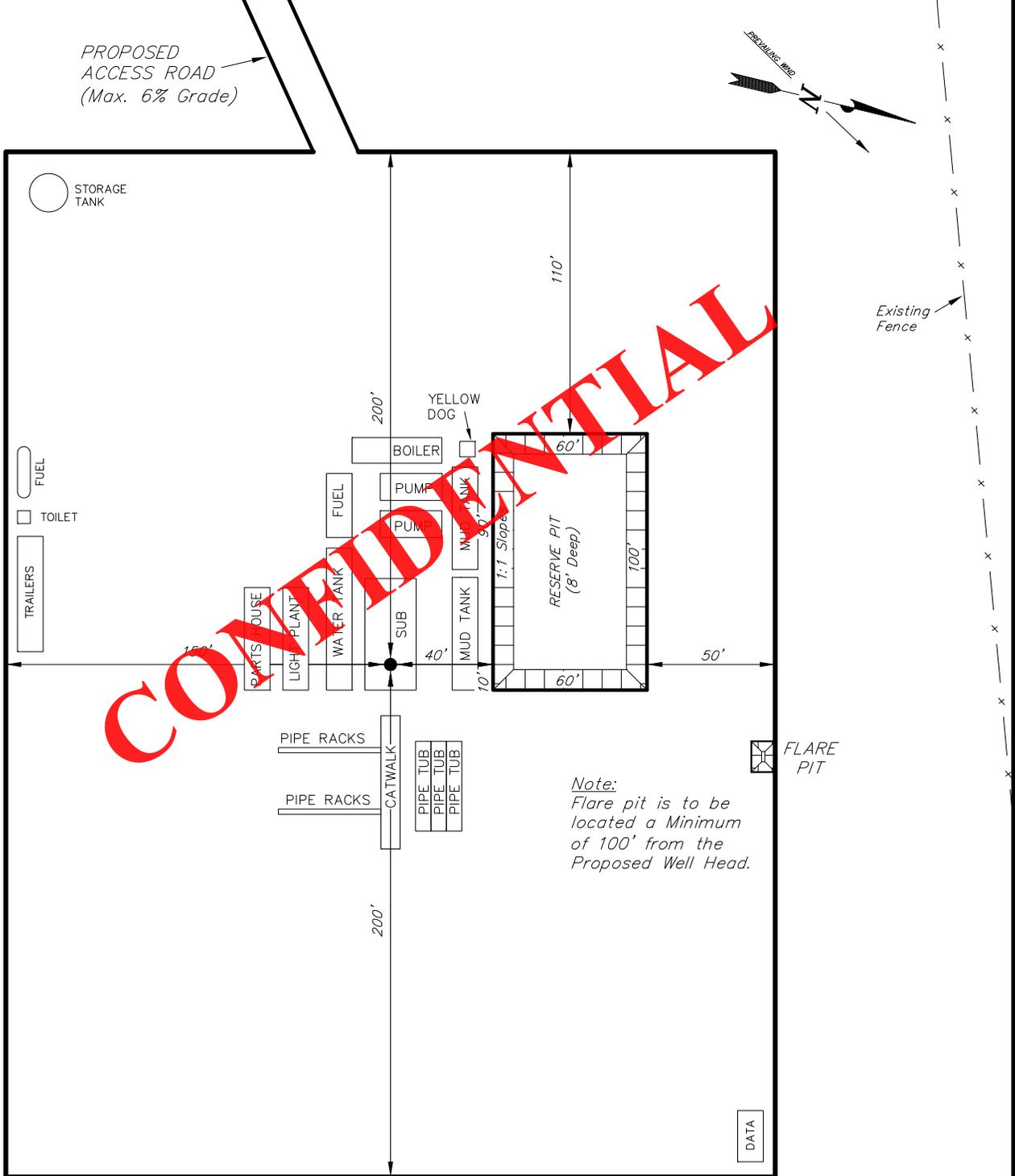
**Tri State** (435) 781-2501  
 Land Surveying, Inc.  
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# NEWFIELD EXPLORATION COMPANY

## TYPICAL RIG LAYOUT

2-4-3-1WH

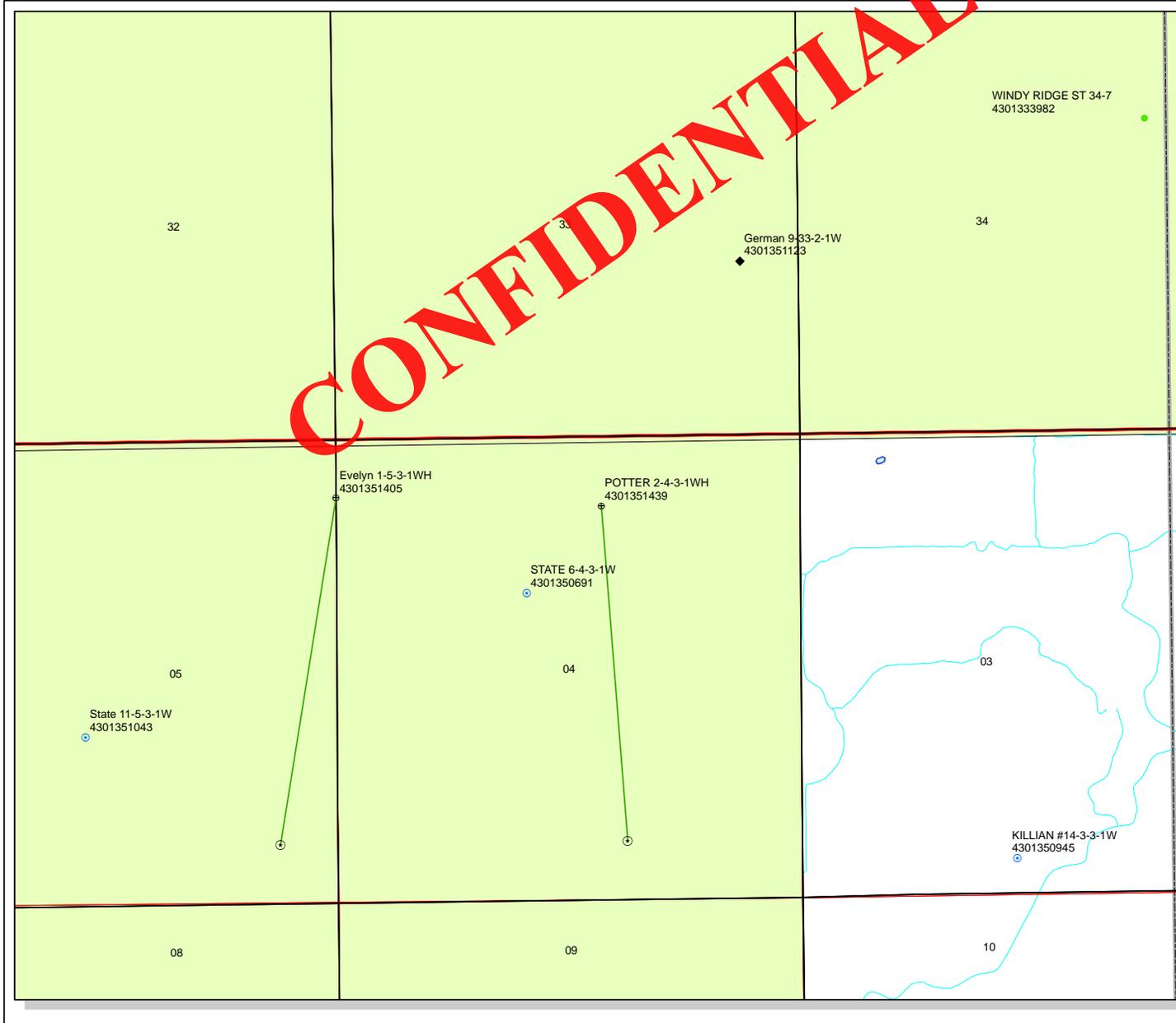
Pad Location: NWNE (Lot 2) Section 4, T3S, R1W, U.S.B.&M.



SURVEYED BY: P.H.	DATE SURVEYED: 02-20-12	VERSION:	<p>Tri State Land Surveying, Inc. (435) 781-2501 180 NORTH VERNAL AVE. VERNAL, UTAH 84078</p>
DRAWN BY: R.B.T.	DATE DRAWN: 02-27-12	V2	
SCALE: 1" = 60'	REVISED: R.B.T. 04-09-12		

RECEIVED: May 22, 2012

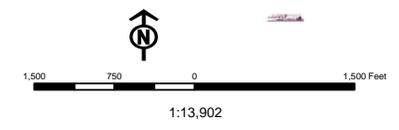
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**API Number: 4301351439**  
**Well Name: POTTER 2-4-3-1WH**  
**Township T0.3 . Range R0.1 . Section 04**  
**Meridian: UBM**  
 Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared:  
 Map Produced by Diana Mason

Units Status	Wells Query Status
ACTIVE	APD - Approved Permit
EXPLORATORY	DRL - Spudded (Drilling Commenced)
GAS STORAGE	GIW - Gas Injection
NF PP OIL	GS - Gas Storage
NF SECONDARY	LOC - New Location
PI OIL	OPS - Operation Suspended
PP GAS	PA - Plugged Abandoned
PP GEOTHERML	PGW - Producing Gas Well
PP OIL	POW - Producing Oil Well
SECONDARY	SGW - Shut-in Gas Well
TERMINATED	SOW - Shut-in Oil Well
ABANDONED	TA - Temp. Abandoned
ACTIVE	TW - Test Well
COMBINED	WDW - Water Disposal
INACTIVE	WW - Water Injection Well
STORAGE	WSW - Water Supply Well
TERMINATED	





August 15, 2012

State of Utah  
Division of Oil, Gas & Mining  
ATTN: Brad Hill  
P O Box 145801  
Salt Lake City, UT 84114

RE: **Potter 2-4-3-1WH**  
Section 4, T3S, R1W  
Duchesne County, Utah

Dear Brad,

Newfield Production Company proposes to drill the Potter 2-4-3-1WH from a surface location of 789' FNL and 2259' FEL of Section 4, T3S, R1W in a northeasterly direction to a point less than 660' FNL of Section 4, then in a southerly direction to a bottom hole location in the SWSE of Section 4. Newfield shall case and cement the Potter 2-4-3-1WH wellbore from the surface location to the point where the wellbore reaches the legal setback of 660' FNL of Section 4, T3S, R1W. The cased and cemented portion of the wellbore shall not be perforated nor produced. In the event a future recompletion into the cased and cemented portion of the wellbore is proposed, Newfield shall file the appropriate application with the State.

As operator of the Potter 2-4-3-1WH and of the State 6-4-3-1, an existing well in Section 4, Newfield respectfully requests that DOGM administratively grant an exception location for the Potter 2-4-3-1WH.

If you have any questions or require further information, please do not hesitate to contact the undersigned at 303-382-4444 or by email at [reveland@newfield.com](mailto:reveland@newfield.com). Your consideration of this matter is greatly appreciated.

Sincerely,

A handwritten signature in blue ink that reads "Roxann Eveland".

Roxann Eveland  
Landman

BOPE REVIEW NEWFIELD PRODUCTION COMPANY POTTER 2-4-3-1WH 43013514390000

Well Name	NEWFIELD PRODUCTION COMPANY POTTER 2-4-3-1WH 430135143			
String	COND	SURF	I1	L1
Casing Size(")	14.000	9.625	7.000	4.500
Setting Depth (TVD)	60	2498	9060	8887
Previous Shoe Setting Depth (TVD)	0	60	2498	9060
Max Mud Weight (ppg)	8.3	8.3	10.5	10.5
BOPE Proposed (psi)	0	500	5000	5000
Casing Internal Yield (psi)	1000	3520	9950	12410
Operators Max Anticipated Pressure (psi)	4621			10.0

Calculations	COND String	14.000	"
Max BHP (psi)	.052*Setting Depth*MW=	26	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	19	NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	13	NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	13	NO
Required Casing/BOPE Test Pressure=		60	psi
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient

Calculations	SURF String	9.625	"
Max BHP (psi)	.052*Setting Depth*MW=	108	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	778	NO air or fresh water drill
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	528	NO No expected pressures
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	542	NO
Required Casing/BOPE Test Pressure=		2464	psi
*Max Pressure Allowed @ Previous Casing Shoe=		60	psi *Assumes 1psi/ft frac gradient

Calculations	I1 String	7.000	"
Max BHP (psi)	.052*Setting Depth*MW=	4947	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	3860	YES
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	2954	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	3503	NO OK
Required Casing/BOPE Test Pressure=		5000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		2498	psi *Assumes 1psi/ft frac gradient

Calculations	L1 String	4.500	"
Max BHP (psi)	.052*Setting Depth*MW=	4852	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	3786	YES
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	2897	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	4890	YES
Required Casing/BOPE Test Pressure=		5000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		9060	psi *Assumes 1psi/ft frac gradient

# 43013514390000 Potter 2-4-3-1WH

## Casing Schematic

127  
151

Surface

Unita

TOC @ 940.

2000' - KOP; build to 5.52° hold  
2187' tail

Surface

2500. MD

2498. TVD

2900' ± BMSW  
3050' BMSW (Newfield)

TOC @ 3753

to 7 1/2" @ 2 1/2" w/o, tail 6817'  
\* proposed to 1000'  
3752' Green River \* St.P ✓

6905' Garden Gulch mbr.  
7729' tail

TOL @ 8496.

8546' KOP to 11° build to 92.91' hold  
AZ 29°

9019' Ute land Butte

Intermediate

9435. MD

9080. TVD

→ BHL @ 789' FNL, 1931' FEL ✓

9435'  
AZ 180°

horizontal

no cut

7" MW 10.5 Frac 19.3

4-1/2" MW 10.5

Production Liner  
13240. MD  
8887. TVD

789NL  
3800  
4589N  
5277  
688 FSL ✓

2259EL  
328  
1931 FEL ✓

SW SE Sec 4-35-1W 660' FSL, 660' FEL  
irr. sec.  
Handline

✓ Slip cuts.

**CONFIDENTIAL**

Well name:	<b>43013514390000 Potter 2-4-3-1WH</b>	
Operator:	<b>NEWFIELD PRODUCTION COMPANY</b>	
String type:	Surface	Project ID: 43-013-51439
Location:	DUCHESNE COUNTY	

**Design parameters:**

**Collapse**

Mud weight: 8.330 ppg  
Design is based on evacuated pipe.

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 74 °F  
Bottom hole temperature: 109 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 100 ft

Cement top: 940 ft

**Burst**

Max anticipated surface pressure: 2,200 psi  
Internal gradient: 0.120 psi/ft  
Calculated BHP 2,500 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.70 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

Tension is based on air weight.  
Neutral point: 2,191 ft

**Directional well information:**

Kick off point: 2000 ft  
Departure at shoe: 35 ft  
Maximum dogleg: 2 °/100ft  
Inclination at shoe: 5.57 °

**Re subsequent strings:**

Next setting depth: 9,080 ft  
Next mud weight: 10.500 ppg  
Next setting BHP: 4,953 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 2,500 ft  
Injection pressure: 2,500 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	2500	9.625	36.00	J-55	LT&C	2498	2500	8.796	20443
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	1081	2020	1.868	2500	3520	1.41	89.9	453	5.04 J

Prepared by: Helen Sadik-Macdonald  
Div of Oil, Gas & Mining

Phone: 801 538-5357  
FAX: 801-359-3940

Date: September 12, 2012  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 2498 ft, a mud weight of 8.33 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

Well name:	<b>43013514390000 Potter 2-4-3-1WH</b>		
Operator:	<b>NEWFIELD PRODUCTION COMPANY</b>		
String type:	Intermediate	Project ID:	43-013-51439
Location:	DUCHESNE COUNTY		

**Design parameters:**

**Collapse**

Mud weight: 10.500 ppg  
Design is based on evacuated pipe.

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 74 °F  
Bottom hole temperature: 201 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,000 ft

Cement top: 3,753 ft

**Burst**

Max anticipated surface pressure: 2,955 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP 4,953 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.80 (B)

Tension is based on air weight.  
Neutral point: 7,668 ft

**Directional well information:**

Kick off point: 2000 ft  
Departure at shoe: 328 ft  
Maximum dogleg: 11 °/100ft  
Inclination at shoe: 92.86 °

**Re subsequent strings:**

Next setting depth: 9,080 ft  
Next mud weight: 10.500 ppg  
Next setting BHP: 4,953 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 9,080 ft  
Injection pressure: 9,080 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	9435	7	26.00	P-110	Buttress	9080	9435	6.151	104927
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	4953	5915	1.194	4953	9950	2.01	236.1	830.4	3.52 B

Prepared by: Helen Sadik-Macdonald  
Div of Oil, Gas & Mining

Phone: 801 538-5357  
FAX: 801-359-3940

Date: September 12, 2012  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 9080 ft, a mud weight of 10.5 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

*Engineering responsibility for use of this design will be that of the purchaser.*

Well name:	<b>43013514390000 Potter 2-4-3-1WH</b>		
Operator:	<b>NEWFIELD PRODUCTION COMPANY</b>		
String type:	Production Liner	Project ID:	43-013-51439
Location:	DUCHESNE COUNTY		

**Design parameters:**

**Collapse**

Mud weight: 10.500 ppg  
 Design is based on evacuated pipe.

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
 Surface temperature: 74 °F  
 Bottom hole temperature: 198 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 1,000 ft

**Burst**

Max anticipated surface pressure: 2,892 psi  
 Internal gradient: 0.220 psi/ft  
 Calculated BHP 4,848 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
 8 Round LTC: 1.80 (J)  
 Buttress: 1.60 (B)  
 Premium: 1.50 (J)  
 Body yield: 1.60 (B)

Tension is based on air weight.  
 Neutral point 8,880 ft

Liner top 8,496 ft  
**Directional Info - Build & Build**  
 Kick-off point 2000 ft  
 Departure at shoe: 3814 ft  
 Maximum dogleg: 11 °/100ft  
 Inclination at shoe: 92.91 °

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	4740	4.5	13.50	P-110	Buttress	8887	13240	3.795	28437
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	4848	10680	2.203	4889	12410	2.54	5.6	421.9	74.95 B

Prepared by: Helen Sadik-Macdonald  
 Div of Oil, Gas & Mining

Phone: 801 538-5357  
 FAX: 801-359-3940

Date: August 27, 2012  
 Salt Lake City, Utah

**Remarks:**

For this liner string, the top is rounded to the nearest 100 ft. Collapse is based on a vertical depth of 8887 ft, a mud weight of 10.5 ppg. The Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a



**Site Stability Issues** N**Drainage Diversion Required?** N**Berm Required?** Y**Erosion Sedimentation Control Required?** N**Paleo Survey Run?** N **Paleo Potential Observed?** N **Cultural Survey Run?** N **Cultural Resources?** N**Reserve Pit**

<b>Site-Specific Factors</b>	<b>Site Ranking</b>	
<b>Distance to Groundwater (feet)</b>	100 to 200	5
<b>Distance to Surface Water (feet)</b>	100 to 200	15
<b>Dist. Nearest Municipal Well (ft)</b>	1320 to 5280	5
<b>Distance to Other Wells (feet)</b>	>1320	0
<b>Native Soil Type</b>	Mod permeability	10
<b>Fluid Type</b>	Fresh Water	5
<b>Drill Cuttings</b>	Normal Rock	0
<b>Annual Precipitation (inches)</b>	10 to 20	5
<b>Affected Populations</b>		
<b>Presence Nearby Utility Conduits</b>	Present	15
	<b>Final Score</b>	60 1 Sensitivity Level

**Characteristics / Requirements**

A 40' x 80' x 8' deep reserve pit is planned in an area of cut on the northwest side of the location. A pit liner is required. Newfield commonly uses a 30 mil liner with a felt underliner. Pit should be fenced to prevent entry by deer, other wildlife and domestic animals. Pit to be closed within one year after drilling activities are complete.

**Closed Loop Mud Required?** N **Liner Required?** Y **Liner Thickness** 16 **Pit Underlayment Required?** N**Other Observations / Comments**Chris Jensen  
Evaluator6/21/2012  
Date / Time

# Application for Permit to Drill Statement of Basis

## Utah Division of Oil, Gas and Mining

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
6021	43013514390000	LOCKED	OW	P	No
<b>Operator</b>	NEWFIELD PRODUCTION COMPANY		<b>Surface Owner-APD</b>	John R. and Stacey A. Bateman	
<b>Well Name</b>	POTTER 2-4-3-1WH		<b>Unit</b>		
<b>Field</b>	WILDCAT		<b>Type of Work</b>	DRILL	
<b>Location</b>	NWNE 4 3S 1W U 789 FNL 2259 FEL GPS Coord (UTM) 585062E 4456707N				

### Geologic Statement of Basis

Newfield proposes to set 60' of conductor and 2,500' of surface casing at this location. The base of the moderately saline water at this location is estimated to be at a depth of 2,900'. A search of Division of Water Rights records shows 7 water wells within a 10,000 foot radius of the center of Section 4. Depth is listed as ranging from 33 to 195 feet. Water use is listed as irrigation, stock watering, and domestic use. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. The proposed casing and cement should adequately protect ground water in this area.

Braley Hill  
APD Evaluator

9/11/2012  
Date / Time

### Surface Statement of Basis

Operator has a surface agreement in place with the landowner. I was made aware that some concessions were made to the landowner. Location is proposed in the best possible position within the spacing window. Access road is going to be placed along the Eastern most boundary of the parcel.

The soil type and topography at present do not combine to pose a significant threat to erosion or sediment/ pollution transport in these regional climate conditions. Construction standards of the Operator appear to be adequate for the proposed purpose. I recognize no special flora or animal species or cultural resources on site that the proposed action may harm. The landowner was invited and was in attendance for the pre-site inspection. The location should be bermed to prevent spills from leaving the confines of the pad. Fencing around the reserve pit will be necessary once the well is drilled to prevent wildlife and livestock from entering. A synthetic liner of 16 mils (minimum) should be utilized in the reserve pit. Measures (BMP's) shall be taken to protect cut steep slopes from erosion, sedimentation and stability issues from slope disturbance on the north.

Chris Jensen  
Onsite Evaluator

6/21/2012  
Date / Time

### Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils shall be properly installed and maintained in the reserve pit.

Surface	Measures (BMP's) shall be taken to protect cut steep slopes from erosion, sedimentation and stability issues from slpoe disturbance on the north.
Surface	The reserve pit shall be fenced upon completion of drilling operations.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.

**CONFIDENTIAL**

## WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 5/22/2012

API NO. ASSIGNED: 43013514390000

WELL NAME: POTTER 2-4-3-1WH

OPERATOR: NEWFIELD PRODUCTION COMPANY (N2695)

PHONE NUMBER: 435 719-2018

CONTACT: Don Hamilton

PROPOSED LOCATION: NWNE 04 030S 010W

Permit Tech Review: 

SURFACE: 0789 FNL 2259 FEL

Engineering Review: 

BOTTOM: 0660 FSL 1980 FEL

Geology Review: 

COUNTY: DUCHESNE

LATITUDE: 40.25650

LONGITUDE: -109.99974

UTM SURF EASTINGS: 585062.00

NORTHINGS: 4456707.00

FIELD NAME: WILDCAT

LEASE TYPE: 4 - Fee

LEASE NUMBER: Patented

PROPOSED PRODUCING FORMATION(S): GREEN RIVER

SURFACE OWNER: 4 - Fee

COALBED METHANE: NO

## RECEIVED AND/OR REVIEWED:

## LOCATION AND SITING:

 PLAT R649-2-3. Bond: STATE - B001834

Unit:

 Potash R649-3-2. General Oil Shale 190-5 Oil Shale 190-3 R649-3-3. Exception Oil Shale 190-13 Drilling Unit Water Permit: 437478

Board Cause No: Cause 139-90

 RDCC Review:

Effective Date: 5/9/2012

 Fee Surface Agreement

Siting: 4 Prod LGRRV-WSTC Per Sectional Drilling Units

 Intent to Commingle R649-3-11. Directional Drill

Commingling Approved

Comments: Presite Completed

Stipulations: 1 - Exception Location - dmason  
 5 - Statement of Basis - bhill  
 12 - Cement Volume (3) - hmacdonald  
 25 - Surface Casing - hmacdonald  
 27 - Other - bhill



GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

## Permit To Drill

\*\*\*\*\*

**Well Name:** POTTER 2-4-3-1WH  
**API Well Number:** 43013514390000  
**Lease Number:** Patented  
**Surface Owner:** FEE (PRIVATE)  
**Approval Date:** 9/24/2012

### Issued to:

NEWFIELD PRODUCTION COMPANY , Rt 3 Box 3630 , Myton, UT 84052

### Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 139-90. The expected producing formation or pool is the GREEN RIVER Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

### Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

### Exception Location:

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

### General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

### Conditions of Approval:

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Cement volume for the 7" intermediate string shall be determined from actual hole diameter in order to place cement from the pipe setting depth back to 1000' MD as indicated in the submitted drilling plan.

Surface casing shall be cemented to the surface.

In accordance with Utah Admin. R.649-3-21, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days

following completion of the well.

**Additional Approvals:**

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan - contact Dustin Doucet
- Significant plug back of the well - contact Dustin Doucet
- Plug and abandonment of the well - contact Dustin Doucet

**Notification Requirements:**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels  
OR  
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website  
at <http://oilgas.ogm.utah.gov>
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing - contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program  
- contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well - contact Dan Jarvis

**Contact Information:**

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office  
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office  
801-231-8956 - after office hours

**Reporting Requirements:**

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

**Approved by:**

A handwritten signature in black ink, appearing to read "J. Rogers", written in a cursive style.

For John Rogers  
Associate Director, Oil & Gas

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	5. LEASE DESIGNATION AND SERIAL NUMBER: Patented
	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: POTTER 2-4-3-1WH
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY	9. API NUMBER: 43013514390000
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052	PHONE NUMBER: 435 646-4825 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0789 FNL 2259 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 04 Township: 03.0S Range: 01.0W Meridian: U	9. FIELD and POOL or WILDCAT: WILDCAT
	COUNTY: DUCHESNE
	STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

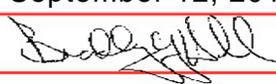
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <b>9/24/2013</b>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Newfield proposes to extend the Application for Permit to Drill this well for one year.

**Approved by the Utah Division of Oil, Gas and Mining**

**Date:** September 12, 2013

**By:** 

NAME (PLEASE PRINT) Mandie Crozier	PHONE NUMBER 435 646-4825	TITLE Regulatory Tech
SIGNATURE N/A	DATE 9/5/2013	



**The Utah Division of Oil, Gas, and Mining**

- State of Utah  
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Request for Permit Extension Validation Well Number 43013514390000**

API: 43013514390000

Well Name: POTTER 2-4-3-1WH

Location: 0789 FNL 2259 FEL QTR NWNE SEC 04 TWP 030S RNG 010W MER U

Company Permit Issued to: NEWFIELD PRODUCTION COMPANY

Date Original Permit Issued: 9/24/2012

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated?  Yes  No
  
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?  Yes  No
  
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?  Yes  No
  
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?  Yes  No
  
- Has the approved source of water for drilling changed?  Yes  No
  
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?  Yes  No
  
- Is bonding still in place, which covers this proposed well?  Yes  No

Signature: Mandie Crozier

Date: 9/5/2013

Title: Regulatory Tech Representing: NEWFIELD PRODUCTION COMPANY

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9  5. LEASE DESIGNATION AND SERIAL NUMBER: Patented
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Oil Well		7. UNIT or CA AGREEMENT NAME:
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		8. WELL NAME and NUMBER: POTTER 2-4-3-1WH
3. ADDRESS OF OPERATOR: 1001 17th Street, Suite 2000 , Denver, CO, 80202		9. API NUMBER: 43013514390000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0789 FNL 2259 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 04 Township: 03.0S Range: 01.0W Meridian: U		9. FIELD and POOL or WILDCAT: NORTH MYTON BENCH
		COUNTY: DUCHESNE
		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <b>9/19/2014</b>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

This sundry notice is being submitted to request an extension to this APD that expires 09/24/2014.

**Approved by the**  
**September 16, 2014**  
**Oil, Gas and Mining**

**Date:** \_\_\_\_\_

**By:** 

NAME (PLEASE PRINT) Melissa Luke	PHONE NUMBER 303 323-9769	TITLE Regulatory Technician
SIGNATURE N/A	DATE 9/15/2014	



**The Utah Division of Oil, Gas, and Mining**

- State of Utah  
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Request for Permit Extension Validation Well Number 43013514390000**

API: 43013514390000

Well Name: POTTER 2-4-3-1WH

Location: 0789 FNL 2259 FEL QTR NWNE SEC 04 TWP 030S RNG 010W MER U

Company Permit Issued to: NEWFIELD PRODUCTION COMPANY

Date Original Permit Issued: 9/24/2012

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

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- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?  Yes  No
  
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?  Yes  No
  
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?  Yes  No
  
- Has the approved source of water for drilling changed?  Yes  No
  
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?  Yes  No
  
- Is bonding still in place, which covers this proposed well?  Yes  No

Signature: Melissa Luke

Date: 9/15/2014

Title: Regulatory Technician Representing: NEWFIELD PRODUCTION COMPANY



GARY R. HERBERT  
*Governor*

SPENCER J. COX  
*Lieutenant Governor*

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

### Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

October 1, 2015

Newfield Production Company  
Rt 3 Box 3630  
Myton, UT 84052

Re: APD Rescinded – Potter 2-4-3-1WH, Sec. 4, T. 3S, R. 1W  
Duchesne County, Utah API No. 43-013-51439

Ladies and Gentlemen:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on September 24, 2012. On September 12, 2013 and September 16, 2014 the Division granted a one-year APD extension. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective October 1, 2015.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

  
Diana Mason  
Environmental Scientist

cc: Well File  
Brad Hill, Technical Service Manager